



SIGNALING
APPARATUS
— AND —
SYSTEMS

Auth Electrical Specialty Co.
New York City

CATALOG NO. 11

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AUTH ELECTRICAL SPECIALTY Co.



422-430 East 53rd Street
New York, N. Y.

March 17, 1928

BULLETIN No. 14-B

MAIL BOXES *a n d* TELEPHONES



THIS BULLETIN DESCRIBES AUTH TELEPHONES, TELEPHONE SYSTEMS AND APPROVED MAIL BOXES. AUTH TELEPHONES AND MAIL BOXES ARE GUARANTEED TO BE FREE FROM MECHANICAL AND ELECTRICAL DEFECTS AND ARE SO DESIGNED THAT THEIR INSTALLATION REQUIRES A MINIMUM OF LABOR AND EXPERIENCE.



Combined Mail Box and Vestibule Telephone

For Use Where Mail Boxes and Vestibule Telephones Are at Same Location

The combined mail box and vestibule telephone installation is finer in appearance and smaller in size than a group made up of separate units.

The telephone plate with the calling buttons is an integral part of the mail box and, for the smaller sizes, occupies the space of only one mail box door.

Various arrangements can be made to meet special conditions.

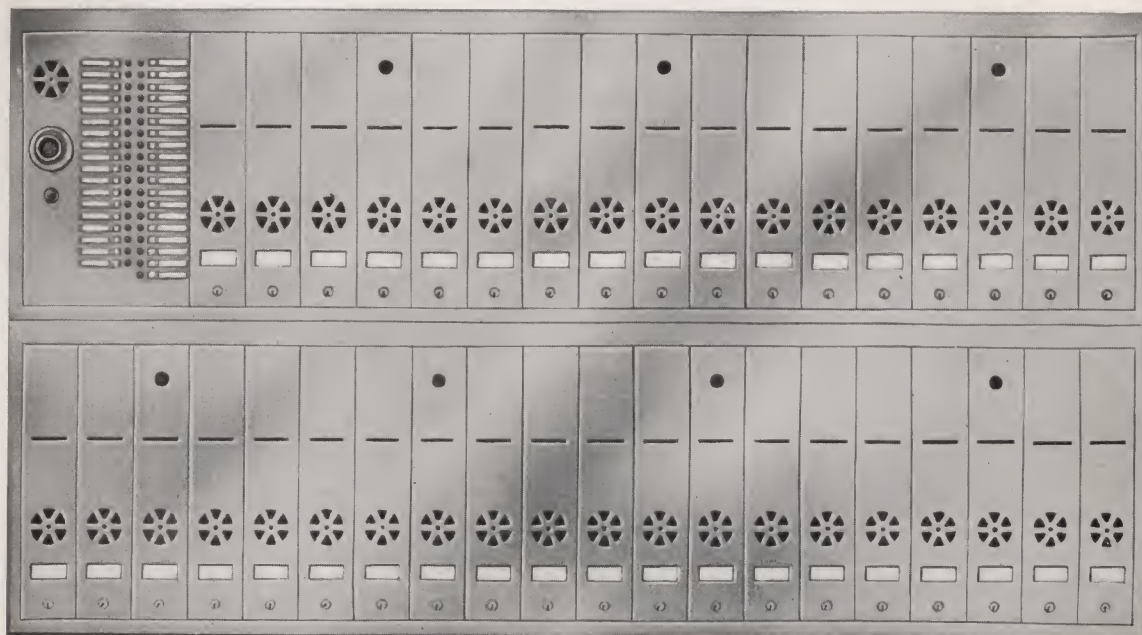
For one row high installations having from three to eighteen mail boxes in addition to the telephone, one unit is furnished. For installations of from eighteen to thirty-seven apartments (2 rows high), only two units are necessary.

When units are furnished for double-row mounting, they are matched and fitted with interlocking guide pins.

The combined telephone and mail box group offers the following advantages over the individual unit installation.

1. Better looking.
2. Eliminates the matching up of separate units.
3. Easier to install, saving labor costs.
4. Saves space.

When ordering, specify the number of rows high. Telephone will be placed in the upper left hand corner unless otherwise specified.



Combined Mail Box and Telephone Group

List Prices Type C Mail Boxes with Vestibule Telephones

Common Talking Systems

	List Price
List per Mail Box, Type C.....	
Loud Speaking Telephone without Push Buttons.....	
Rocker Arm Telephone without Push Buttons.....	
Armored Cord Telephone without Push Buttons.....	
Add for Each Push Button.....	

See page 4 for dimensions of vestibule telephones with mail boxes

Selective Talking Systems

Vestibule Telephones equipped with Armored Cord Receiver and Swing Arm Receiver are the only ones furnished for Selective Talking Systems.

Loud Speaking Telephones can not be wired for Selective Talking Systems:

	List Price
Armored Cord Receiver.....	
Swing Arm Receiver.....	
Add for Each Button.....	



Auth Type C Mail Box

Approved by the Post Office Department

The Auth Type C Mail Box has been designed to fulfill the ruling of the Post Office Department to the letter and at the same time be as economical as possible with wall space.

The tilting door feature makes it possible to insert and remove the maximum size mail with the greatest ease.

The height of the Type C mail box is the standard $16\frac{1}{2}"$. The width for any number of units is less than that of any other approved mail box. List Price per mail box



Type C Mail Box

With Push Buttons in Bottom Trim Cat. CS

Push buttons of the midget type may be mounted in the bottom trim of the mail box.

. List Price per mail box

With Push Buttons in an Extra Compartment Cat. CB

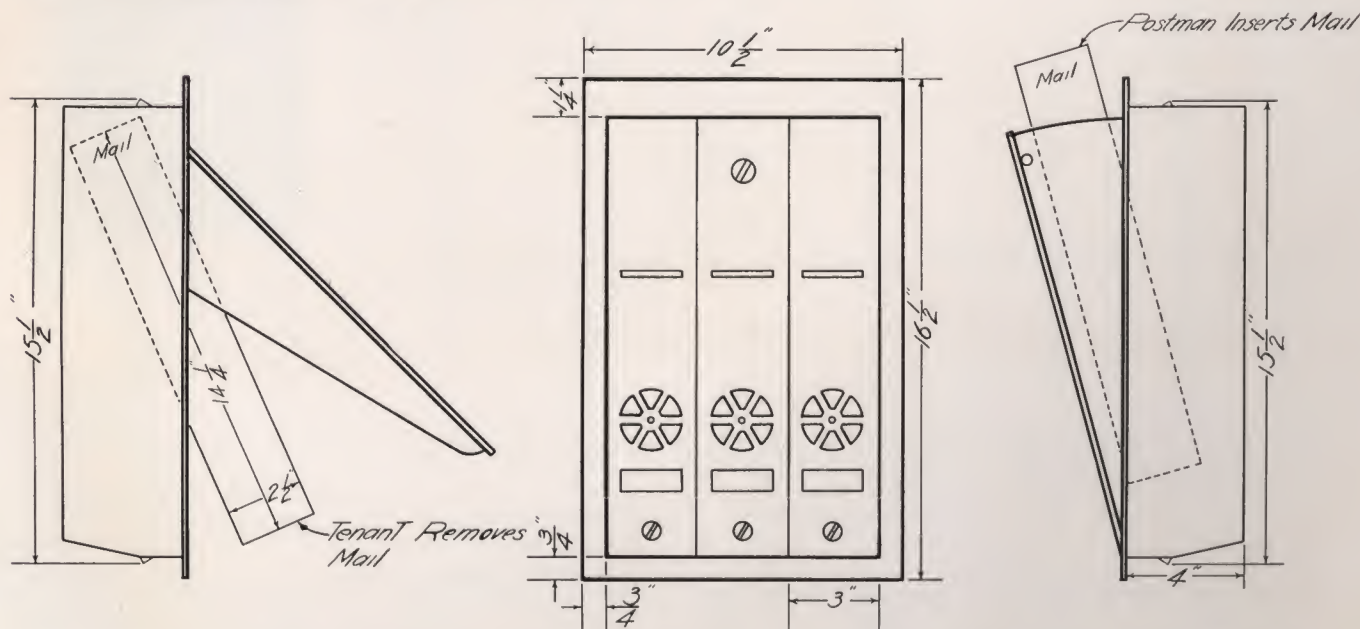
Push buttons and cardholders of the same design as those used on vestibule telephones may be mounted integral with the mail box in the space occupied by one mail box door. List Price per mail box

Vestibule Push Buttons

No. 795—Push button for apartment houses. Sizes for different arrangements given upon request. 12-button plate, List Price
Add for each additional button. List Price



No. 795



Mail Boxes should be installed so that the Master Lock is not more than 66 inches from the finish floor



Dimensions of Type C Mail Box with and without Vestibule Telephone

MAIL BOX ONLY SINGLE ROW MOUNTING			MAIL BOX ONLY DOUBLE ROW MOUNTING		COMBINATION MAIL BOX AND VESTIBULE TELEPHONE GROUP SINGLE ROW MOUNTING		COMBINATION MAIL BOX AND VESTIBULE TELEPHONE GROUP DOUBLE ROW MOUNTING	
No. of Apts. *	Width of Wall Opening Inches	Width Overall Inches	Width of Wall Opening Inches	Width Overall Inches	Width of Wall Opening Inches	Width Overall Inches	Width of Wall Opening Inches	Width Overall Inches
3	9 $\frac{1}{2}$	10 $\frac{1}{2}$	....	....	12 $\frac{1}{2}$	13 $\frac{1}{2}$	....	....
4	12 $\frac{1}{2}$	13 $\frac{1}{2}$	....	....	15 $\frac{1}{2}$	16 $\frac{1}{2}$	....	....
5	15 $\frac{1}{2}$	16 $\frac{1}{2}$	....	....	18 $\frac{1}{2}$	19 $\frac{1}{2}$	....	....
6	18 $\frac{1}{2}$	19 $\frac{1}{2}$	....	....	21 $\frac{1}{2}$	22 $\frac{1}{2}$	....	....
7	21 $\frac{1}{2}$	22 $\frac{1}{2}$	....	....	24 $\frac{1}{2}$	25 $\frac{1}{2}$	....	....
8	24 $\frac{1}{2}$	25 $\frac{1}{2}$	....	....	27 $\frac{1}{2}$	28 $\frac{1}{2}$	....	....
9	27 $\frac{1}{2}$	28 $\frac{1}{2}$	....	....	30 $\frac{1}{2}$	31 $\frac{1}{2}$	....	....
10	30 $\frac{1}{2}$	31 $\frac{1}{2}$	15 $\frac{1}{2}$	16 $\frac{1}{2}$	33 $\frac{1}{2}$	34 $\frac{1}{2}$	....	....
11	33 $\frac{1}{2}$	34 $\frac{1}{2}$	....	....	36 $\frac{1}{2}$	37 $\frac{1}{2}$	....	....
12	36 $\frac{1}{2}$	37 $\frac{1}{2}$	18 $\frac{1}{2}$	19 $\frac{1}{2}$	39 $\frac{1}{2}$	40 $\frac{1}{2}$	21 $\frac{1}{2}$	22 $\frac{1}{2}$
13	39 $\frac{1}{2}$	40 $\frac{1}{2}$	....	....	45 $\frac{1}{2}$	46 $\frac{1}{2}$	24 $\frac{1}{2}$	25 $\frac{1}{2}$
14	42 $\frac{1}{2}$	43 $\frac{1}{2}$	21 $\frac{1}{2}$	22 $\frac{1}{2}$	48 $\frac{1}{2}$	49 $\frac{1}{2}$	24 $\frac{1}{2}$	25 $\frac{1}{2}$
15	45 $\frac{1}{2}$	46 $\frac{1}{2}$	....	....	51 $\frac{1}{2}$	52 $\frac{1}{2}$	27 $\frac{1}{2}$	28 $\frac{1}{2}$
16	48 $\frac{1}{2}$	49 $\frac{1}{2}$	24 $\frac{1}{2}$	25 $\frac{1}{2}$	54 $\frac{1}{2}$	55 $\frac{1}{2}$	27 $\frac{1}{2}$	28 $\frac{1}{2}$
17	51 $\frac{1}{2}$	52 $\frac{1}{2}$	....	....	57 $\frac{1}{2}$	58 $\frac{1}{2}$	30 $\frac{1}{2}$	31 $\frac{1}{2}$
18	54 $\frac{1}{2}$	55 $\frac{1}{2}$	27 $\frac{1}{2}$	28 $\frac{1}{2}$	60 $\frac{1}{2}$	61 $\frac{1}{2}$	30 $\frac{1}{2}$	31 $\frac{1}{2}$
19	57 $\frac{1}{2}$	58 $\frac{1}{2}$	....	....	65	66	33 $\frac{1}{2}$	34 $\frac{1}{2}$
20	60 $\frac{1}{2}$	61 $\frac{1}{2}$	30 $\frac{1}{2}$	31 $\frac{1}{2}$	68	69	33 $\frac{1}{2}$	34 $\frac{1}{2}$
21	65	66	....	....	71	72	36 $\frac{1}{2}$	37 $\frac{1}{2}$
22	68	69	33 $\frac{1}{2}$	34 $\frac{1}{2}$	74	75	36 $\frac{1}{2}$	37 $\frac{1}{2}$
23	71	72	....	....	77	78	39 $\frac{1}{2}$	40 $\frac{1}{2}$
24	74	75	36 $\frac{1}{2}$	37 $\frac{1}{2}$	80	81	39 $\frac{1}{2}$	40 $\frac{1}{2}$
25	77	78	....	....	83	84	42 $\frac{1}{2}$	43 $\frac{1}{2}$
26	80	81	39 $\frac{1}{2}$	40 $\frac{1}{2}$	86	87	42 $\frac{1}{2}$	43 $\frac{1}{2}$
27	83	84	....	....	89	90	45 $\frac{1}{2}$	46 $\frac{1}{2}$
28	86	87	42 $\frac{1}{2}$	43 $\frac{1}{2}$	92	93	45 $\frac{1}{2}$	46 $\frac{1}{2}$
29	89	90	....	....	95	96	48 $\frac{1}{2}$	49 $\frac{1}{2}$
30	92	93	45 $\frac{1}{2}$	46 $\frac{1}{2}$	98	99	48 $\frac{1}{2}$	49 $\frac{1}{2}$
31	95	96	....	....	101	102	51 $\frac{1}{2}$	52 $\frac{1}{2}$
32	98	99	48 $\frac{1}{2}$	49 $\frac{1}{2}$	104	105	51 $\frac{1}{2}$	52 $\frac{1}{2}$
33	101	102	....	....	110	111	54 $\frac{1}{2}$	55 $\frac{1}{2}$
34	104	105	51 $\frac{1}{2}$	52 $\frac{1}{2}$	113	114	57 $\frac{1}{2}$	58 $\frac{1}{2}$
35	107	108	....	....	116	117	57 $\frac{1}{2}$	58 $\frac{1}{2}$
36	110	111	54 $\frac{1}{2}$	55 $\frac{1}{2}$	119	120	60 $\frac{1}{2}$	61 $\frac{1}{2}$
37	113	114	....	....	122	123	60 $\frac{1}{2}$	61 $\frac{1}{2}$
38	116	117	57 $\frac{1}{2}$	58 $\frac{1}{2}$	126 $\frac{1}{2}$	127 $\frac{1}{2}$	65	66
39	119	120	....	....	129 $\frac{1}{2}$	130 $\frac{1}{2}$	65	66
40	122	123	60 $\frac{1}{2}$	61 $\frac{1}{2}$	132 $\frac{1}{2}$	133 $\frac{1}{2}$	68	69

*For from 3 to 20 Mail Boxes a single group is furnished. From 20 to 40 Mail Boxes require two groups.

Height of Single Row
Overall.....16 $\frac{1}{2}$ "
Wall opening.....15 $\frac{1}{2}$ "

*Only two groups are required for 10 to 40 Mail Boxes mounted in a double row.

Height of Double Row
Overall.....33"
Wall opening...32"

*3 to 18 Apartments require a single group. 18 to 37 Apartments require two groups. 37 to 40 Apartments require three groups.

Height of Single Row
Overall.....16 $\frac{1}{2}$ "
Wall opening.15 $\frac{1}{2}$ "

*12 to 37 Apartments require two groups. 37 to 40 Apartments require four groups.

Height of Double Row
Overall.....33"
Wall opening...32"

A Mail Box Must be Supplied for the Janitor



Apartment House Telephones

Flush Type Apartment Telephones

A hinged front telephone, neat in appearance, rugged in construction and efficient in operation. Watch case receiver and concealed buzzer.



No. 7002

One of the features of this telephone is the hinged front. The terminals and mechanism of the telephone are easily and quickly exposed for wiring and inspection by loosening one machine screw and swinging the front plate on its hinges. The advantages of this feature are readily apparent.

For systems where transformers are used for ringing, a unique buzzer is used. This buzzer has no adjustments, no contacts, is trouble-proof and will operate on any AC voltage from 4 V. to 24 V.

The hook spring of the flush telephone is insulated with bakelite and covered with a metal guard which protects it during and after installation.

In the great majority of cases, where a flush telephone must be removed from the wall after installation, the trouble is found to be a defective buzzer or a damaged hook spring.

With its trouble-proof buzzer and protected hook spring, there should be no occasion for removing an Auth flush telephone from the wall after it has been installed.

Overall— $7\frac{3}{8} \times 5\frac{1}{2}$

Surface Type Apartment Telephones

An all-metal telephone of modern design, bakelite insulation and hinged door. All the mechanism is mounted on the back of the telephone so that only the buttons swing out when the door is opened. The buzzer is concealed, and for transformer operation, the trouble-proof buzzer, which is used on the flush telephone is furnished.

Standard Finishes—Flush telephone—Sprayed Brass or Duco Black.

Surface telephone—Duco Black.

Other commercial finishes—Add to list.

When ordering, specify the system the telephones are to work with, see systems pages 11 to 18.

Overall— $7 \times 6\frac{3}{8} W$



No. 7501

Number of Buttons	Flush Telephone Cat. No.	Surface Telephone Cat. No.	List Price
0	700	705	.....
1	7001	7051	.....
2	7002	7052	.....
3	7003	7053	.....

Unless otherwise specified, push buttons on flush apartment house telephones will be engraved as follows:

2 Buttons—Manager, Door Opener



Vestibule Telephones

For mounting as separate units next to the Mail Boxes or at another location

Cordless Loud Speaking Telephones

A very efficient Loud Speaking Telephone mounted on a solid brass plate and equipped with a wood back box for flush mounting.

All operating parts are concealed on the back of the plate so that the telephone cannot be damaged by rough usage.

Swinging Arm Telephones

A vestibule telephone for rough service.

The receiver is securely fastened to the end of a heavy brass arm which is swung into a horizontal position when the receiver is in use. The receiver automatically assumes its normal position when it is released. The entire swinging arm is of heavy construction and is especially designed to prevent the removal of the receiver.

The telephone is mounted on a solid brass plate and furnished with a wood back box for flush mounting.

Armored Cord Telephone

A solid brass plate telephone with a wood back box for flush mounting. The receiver cord is covered with a flexible brass tubing to which the receiver is securely fastened to make its removal impossible.

List Prices

No. 710—Cordless Loud Speaking Type—No buttons.....

No. 720—Swinging Arm Type—No Buttons.....

No. 715—Armored cord Type—No Buttons.....

Add for Each Button Required.....

Standard Sizes

Height of Plate Inches	Rows of Buttons Wide	Maximum Number of Buttons	Overall		Wall Cut	
			Height Inches	Width Inches	Height Inches	Width Inches
16½	1	13	16½	5½	15½	4½
16½	2	26	16½	6½	15½	5½
16½	3	39	16½	10½	15½	9½
16½	4	70	16½	13¼	15½	12¼
33	1	45	33	5½	32	4½
33	2	90	33	6½	32	5½

Special Sizes Furnished without Extra Charge



No. 710



No. 720



No. 715

Janitors' and Tradesmen's Telephones

Common Talking—One Vestibule Only

Janitors' Answering Telephones

Janitor can operate door opener and answer apartments and vestibule, but cannot call apartments.

- No. 721**—Surface **No. 7210** Flush (System A3)—For use with armored cord or swinging arm vestibule telephone.....List
- No. 727**—Surface **No. 7270** Flush (System A36)—For use with loud speaking vestibule telephone.....List



No. 721

Janitors' Answering and Calling Telephones

Janitor answers apartments and vestibule, operates door opener, calls and talks with apartments.

- No. 724** (System A3)—For use with armored cord or swinging arm vestibule telephone 4-button.....List
- Add for each additional push buttonList
- No. 726** (System A36)—For use with loud speaking vestibule telephone, 4-button.....List
- Add for each additional push buttonList



No. 724

Tradesmen's Calling Telephones

- No. 722** (System A3)—For use with armored cord or swinging arm vestibule telephones, 4-button.....List
- Add for each additional push buttonList
- No. 723** (System A36 and A42)—For use with cordless loud speaking vestibule telephone, 4-button.....List
- Add for each additional push buttonList



No. 727

Sectional Talking—Two Vestibules

Janitors' Answering Telephone

Janitor can operate door openers and answer apartments and vestibules.

- No. 7299** Surface (System A29)—For use with two vestibule telephones of the armored cord or swinging arm type.....List
- No. 729** Surface or **7290** Flush (System A42)—For use with two loud speaking vestibule telephones.....List



No. 722



Sectional Talking—Two Vestibules, Cont. Janitors' Answering and Calling Telephones

Janitor answers all apartments and both vestibules, operates door openers, calls and talks with apartments.

- No. 739** (System A29)—For use with two vestibule telephones of the armored cord or swinging arm type.
4-button..... List
Add for each additional push button..... List
- No. 728** (System A42)—For use with two loud speaking vestibule telephones, 4-button..... List
Add for each additional push button..... List

Tradesmen's Calling Telephones

With buttons for calling apartments on the same section.

- No. 722** (System A29)—For use with two vestibules of the armored cord or swinging arm type, 4-button. List
Add for each additional push button..... List
- No. 723** (System A42)—For use with two loud speaking vestibule telephones, 4-buttons..... List
Add for each additional push button..... List

Telephone Annunciators

Janitor's Answering and Calling Telephone Annunciators

One Vestibule Common Talking

For use where the janitor calls and answers apartments, answers vestibule and operates door opener. An electric reset drop for each apartment and the vestibule registers calls made during janitor's absence.



No. 732 - 735

- No. 732** (System A3-1)—Common talking for use with armored cord or swinging arm vestibule telephone..... List
- No. 733** (System A36-1)—For use with cordless loud speaking vestibule telephone.
..... List

Sectional Talking Two or More Vestibules

For use where janitor calls and answers apartments, answers vestibules and operates door opener. An electric reset drop for each vestibule and each apartment registers calls made during janitor's absence.

- No. 734** (System A29-1)—For use with swinging arm or armored cord vestibule telephones. 2-section, 12 apartments. List
Add for each additional section..... List
Add for each additional drop per section..... List
- No. 735** (System A42-1)—For use with two or more cordless loud speaking vestibule telephones. Sectional talking. 2-section, 12 apartments. List
Add for each additional section..... List
Add for each additional drop per section..... List



Telephone Annunciators Cont.

Janitor's Answering and Calling Telephone Annunciators

Sectional Talking—Two or More Vestibules

Janitor answers each vestibule, calls and answers apartments and operates each door opener. An electric reset drop for each section indicates which section is calling.

No. 737 (System A29)—For use with armored cord or swinging arm vestibule telephone. 2-section, 12 apartments. List
Add for each additional push button. List

No. 738 (System A42)—For use with loud speaking vestibule telephone. 2-section, 12 apartments. List
Add for each additional push button. List

Janitor's Answering Telephone Annunciators

Sectional Talking—Two or More Vestibules

Annunciator drop indicates which section is calling. Janitor's answering plug connects his telephone to the calling section. The annunciator has a door opener button for each section but no buttons for ringing apartments. Standard finish—black.

No. 730 (System A29)—For use with armored cord or swinging arm vestibule telephones. 2-section annunciator. List
Add for each additional section. List

No. 731 (System A42)—For use with cordless loud speaking vestibule telephones. 2-section annunciator. List
Add for each additional section. List



No. 730

Selective Talking and Ringing Telephone Annunciators

(Non-Interfering)

No. 736 (System A43)—Selective ringing and talking master station telephone annunciator. One electric reset drop and one jack for each outlying station. One combined calling and answering plug is furnished. By the addition of extra cross connecting cords and plugs, as many as three cross connections may be had between outlying stations. Supervisory signals to indicate the end of a conversation may also be added.



No. 736

No. 736 Price List

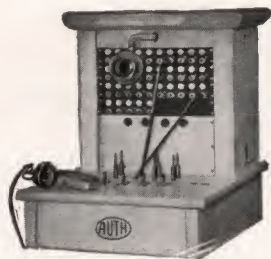
Number of Signals	List Price	Number of Signals	List Price
16		49	.....
20		56	.....
25		64	.....
30		72	.....
36		81	.....
42		90	.....
		100	.....



Telephone Switchboards

Lamp and Drop Types System SB

To insure efficient and faultless service the best of materials and parts are used in the construction of Auth Telephone Switchboards. The cabinet work and finish of the switchboard is of the finest quality and when it is placed in an entrance hall or lobby, its presence is appreciated for its neat appearance in addition to its utility.



No. 770

No. 770—Recessed or Desk Type

This switchboard may be set in a recess provided for it, or on a table or desk. A lamp signal and line jack is provided for each outlying station. One pair of plugs and one ringing and listening cam is provided for every twenty stations. A hand microphone is standard equipment for the operator. Standard finishes, oak and mahogany. Other commercial finishes without extra charge.

No. 771—Free Standing Switchboard

Same equipment as No. 770. Operator's transmitter is mounted on an adjustable goose neck. Long pole operator's receiver. Standard finishes oak and mahogany. Other commercial finishes furnished without extra charge.



No. 771

No. 775—Flush Wall Type Switchboard

Same equipment as No. 770. Hand microphone for operator. Standard finishes oak and mahogany. Other commercial finishes furnished without extra charge.

No. 772—Surface Wall Type Switchboard

Same specifications as No. 775.



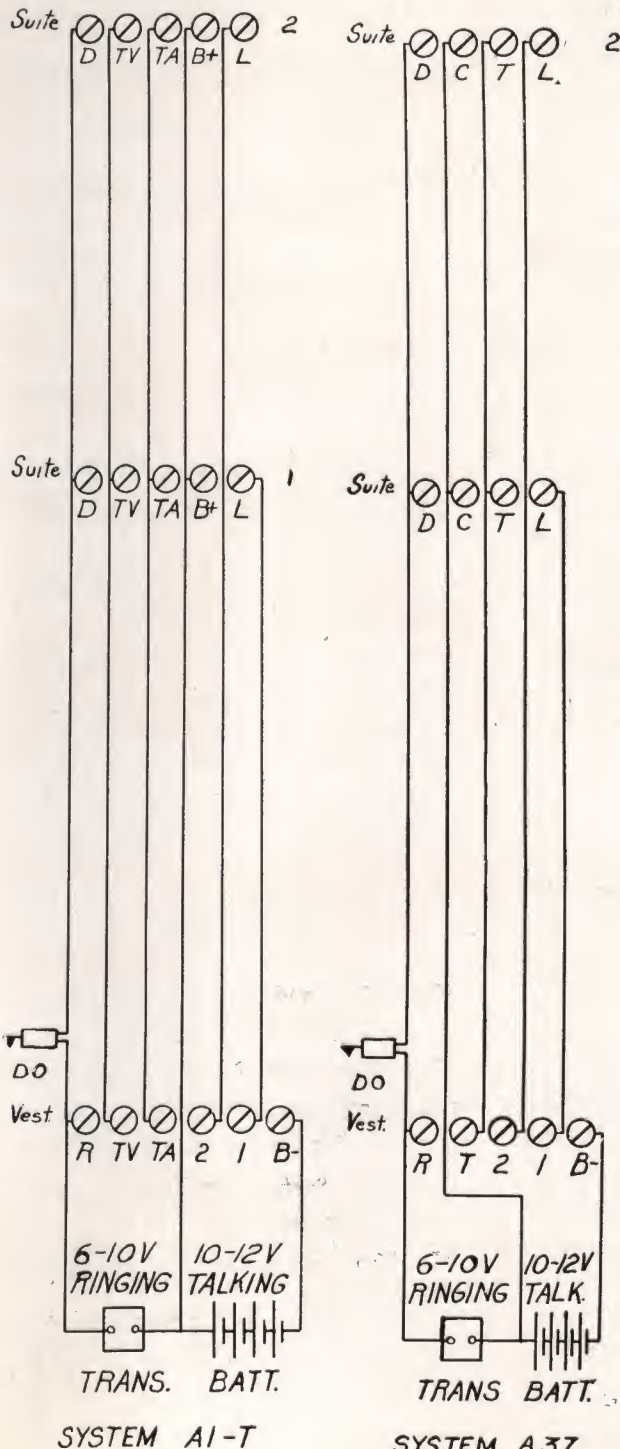
No. 775

A 24 V. DC. Authostat or 24 V. Autho-former is recommended for the operation of Auth Telephone Switchboards

No. Signals	No. 770 Lamp Type Recessed	No. 775 and 772 Lamp Type Flush and Surface Wall Boards	No. 771 Lamp Type Free Standing
20			
25			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			
80			
85			
90			
95			
100			



System A1T



With Cordless Loud Speaking Vestibule Telephone

Vestibule and Apartments Only

Service

Common Talking.

Vestibule can ring and talk with apartments. Apartments can talk with vestibule and operate door-opener.

Apparatus

No. 710 Loud speaking telephone for the vestibule. See page 6.

No. 7001 Flush 1-button telephone, or No. 7051 Surface 1-button telephone for apartments. See page 5.

Note: When ordering specify whether transformer or batteries are to be used for ringing.

System A-37

With Armored Cord or Swinging Arm Vestibule Telephone

Vestibule and Apartments Only

Service

Common Talking

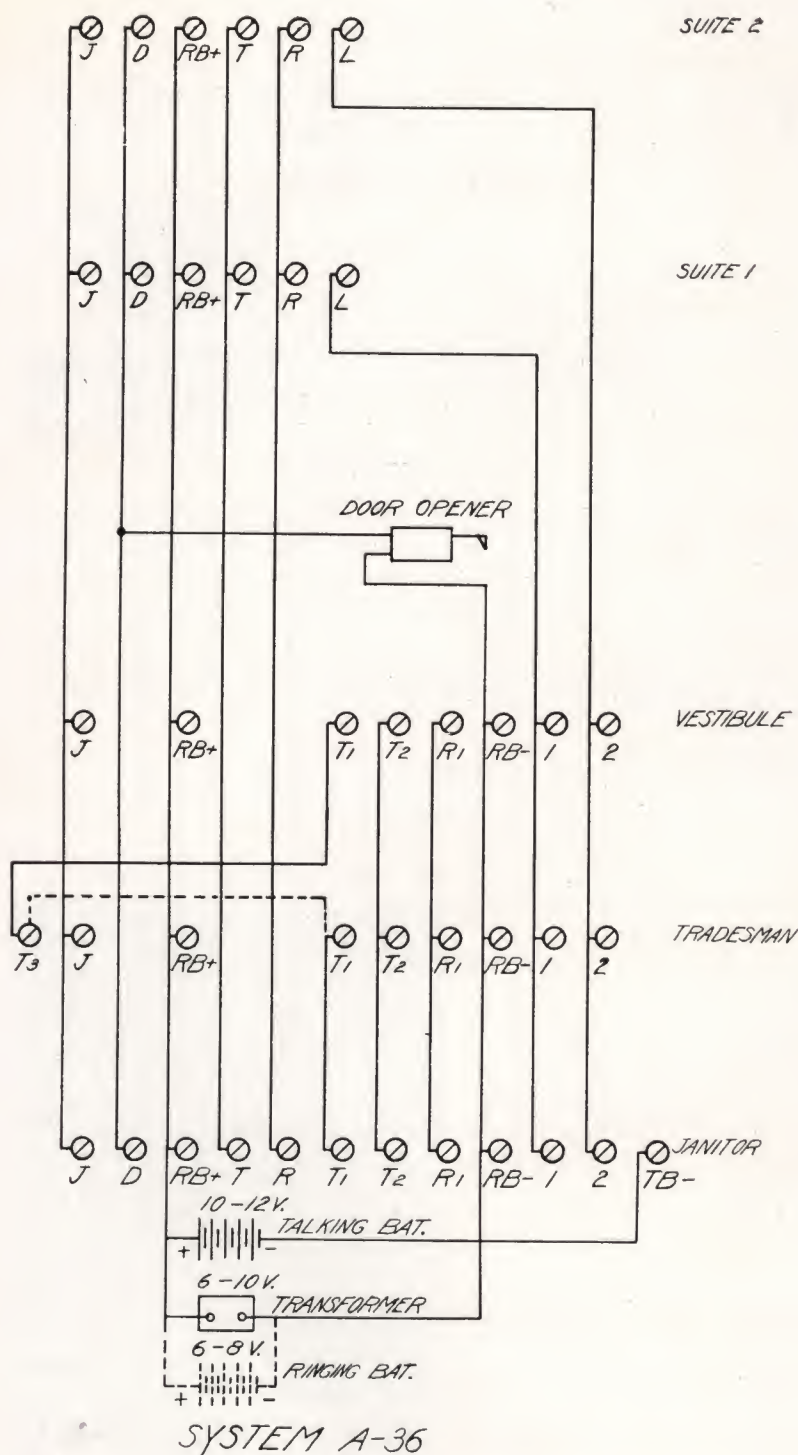
Vestibule can ring and talk with apartments. Apartments can talk with vestibule and operate door opener.

Apparatus

No. 720 Swinging arm telephone or No. 715 Armored cord telephone for vestibule. See page 6.

No. 7001 1-button flush telephone or No. 7051 1-button surface telephone may be used in the apartments. See page 5

Note: When ordering specify whether transformer or batteries are to be used for ringing.



SYSTEM A-36

Omit dotted wire T₃-T₁ when Tradesmen's telephone is used

System A-36

With Cordless Loud Speaking Vestibule Telephone

Vestibule, Apartments, Tradesmen and Janitor

Service

Common talking.

Vestibule can ring and talk with apartments and janitor.

Apartments can operate door-opener.

Apartments can ring and talk with an itor.

Janitor can ring and talk with apartments and operate door-opener.

Tradesmen can ring and talk with apartments and janitor.

Tradesmen's telephone may be omitted without change in the rest of the system.

Buttons for calling the apartments may be omitted from the janitor's telephone.

Apparatus

No. 710—Loud speaking telephone for vestibule. See page 6.

No. 7002—Flush 2-button telephone, or

No. 7052—Surface 2-button telephone for apartments. See page 5.

No. 726—Surface telephone for janitor. See page 7.

No. 723—For tradesmen. See page 7.

Note: When ordering specify whether transformer or batteries are to be used for ringing.

System A-42

With Cordless Loud Speaking Vestibule Telephones

Two or More Vestibules, Apartments, Tradesmen's Telephone for Each Section and One Janitor's Telephone

Service

Sectional Common Talking.

Each section can be operated entirely independent of the others.

Each vestibule can ring and talk with the apartments on the same section.

Each vestibule can ring and talk with the janitor.

Apartments operate door-opener on their respective sections. Apartments can ring and talk with janitor.

Janitor can ring and talk with all apartments.

Tradesmen can ring and talk with apartments on the same section.

Tradesmen can ring and talk with janitor.

Tradesmen's telephone may be omitted without change in the rest of the system.

Buttons for calling apartments may be omitted from janitor's telephone.

Apparatus

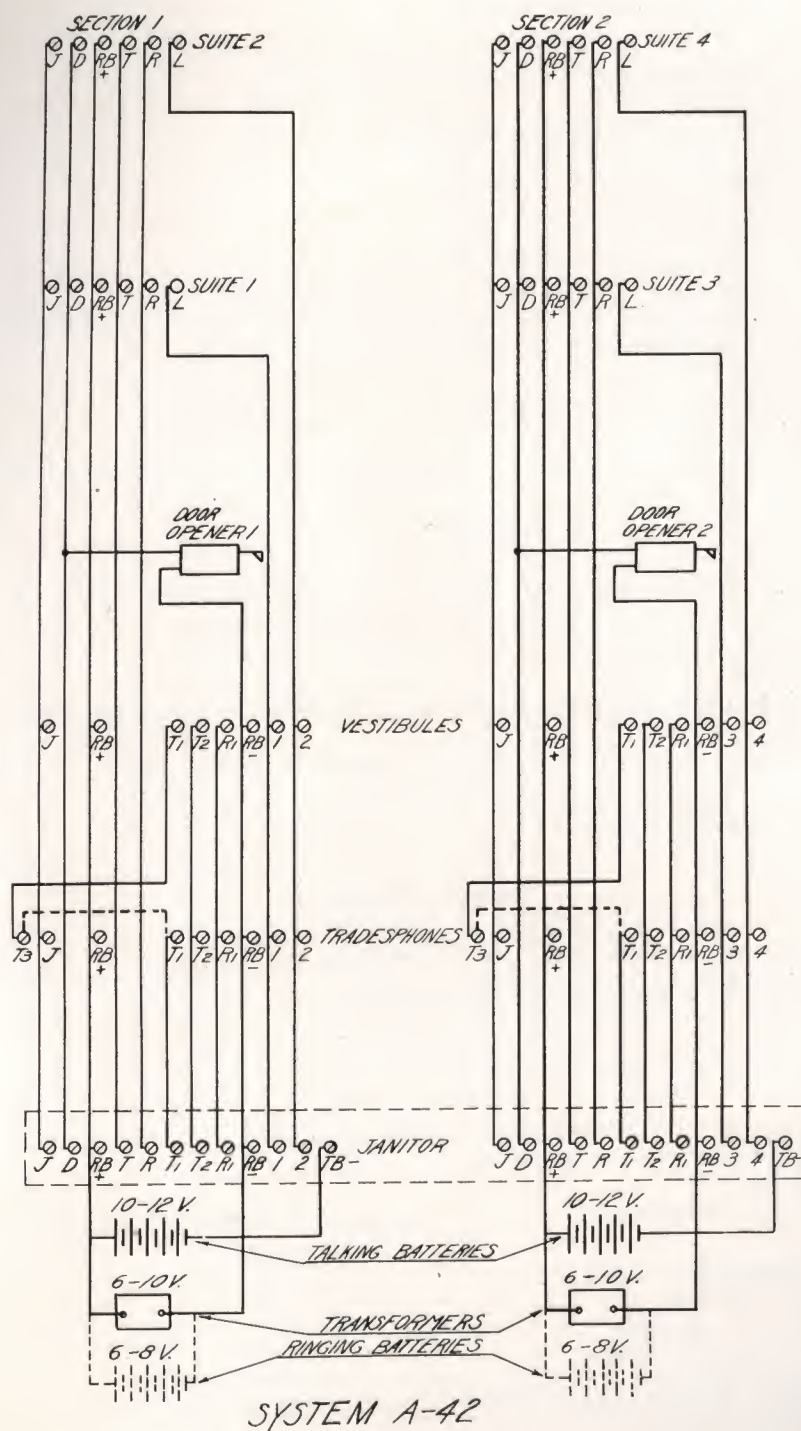
No. 710—Loud speaking telephone for the vestibule. See page 6.

No. 7002—Flush 2-button telephones or Cat. 7052 surface 2-button telephones for apartments. See page 5.

No. 729—Surface telephone for janitor. See page 7.

No. 723—For tradesmen. See page 7.

Note: When ordering specify whether transformer or batteries are to be used for ringing.



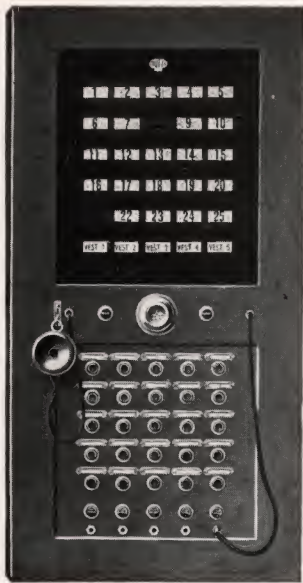
Omit dotted wire T₃-T₁ when Tradesmen's telephone is used



System A 36-1

With Cordless Loud Speaking Vestibule Telephone

Vestibule, Apartments, Tradesmen and Janitor's Telephone Annunciator



No. 733 and 735

Service

Same as System A36, with the exception that calls to the janitor from the vestibule and each apartment are registered by their respective drops on the annunciator.

Apparatus

Use No. 733 for the janitor annunciator. Other apparatus same as for System A36.

Wiring

Use System A36 but omit common wire marked "J" and replace it with a section wire from the vestibule and each apartment to the janitor's telephone annunciator.

Diagram furnished upon request.

Note: When ordering specify whether transformer or batteries are to be used for ringing.

System A42-1

With Cordless Loud Speaking Vestibule Telephone

Two or More Vestibules, Apartments, Tradesmen's Telephone for Each Section and One Janitor's Telephone Annunciator

Service

Same as System A42 with the exception that calls to the janitor from the vestibules and each apartment are registered by their respective drops on the annunciator.

Apparatus

Use No. 735 for the janitor's telephone annunciator. Other apparatus same as for System A42.

Wiring

Use System A42 but omit common wire marked "J" and replace it with a section wire from each vestibule and each apartment to the janitor's telephone annunciator.

Diagram furnished upon request.

Note: When ordering specify whether transformer or batteries are to be used for ringing.

System A-3

With Armored Cord or Swinging Arm Vestibule Telephone

Vestibule, Apartments, Tradesmen and Janitor Service

Common Talking.
Vestibule can ring and talk with apartments and janitor.
Apartments can operate door-opener.
Apartments can ring and talk with janitor.
Janitor can ring and talk with apartments and operate door-opener.
Tradesmen can ring and talk with apartments and janitor.
Tradesmen's telephone may be omitted without change in the system.
Buttons for calling apartments may be omitted from janitor's telephone.

Apparatus

No. 720—Swinging Arm telephone or No. 715—Armored cord telephone for vestibule. See page 6.
No. 7002—Flush 2-button telephone or No. 7052—Surface 2-button telephone for apartments. See page 5.

No. 721—Surface telephone for janitor.

If calling buttons are omitted on janitor's telephone, use No. 7210 1-button flush telephone or No. 721 1-button surface telephone. See page 7.

No. 722—For tradesmen.

No. 70—Retardation coil.

Note: When ordering specify whether transformer or batteries are to be used for ringing.

System A3-1

With Armored Cord or Swinging Arm Vestibule Telephone

Vestibule, Apartments, Tradesmen's and Janitor's Telephone Annunciator

Service

Same as System A3 with the exception that calls to the janitor from the vestibule and each apartment are registered by their respective drops on the annunciator.

Apparatus

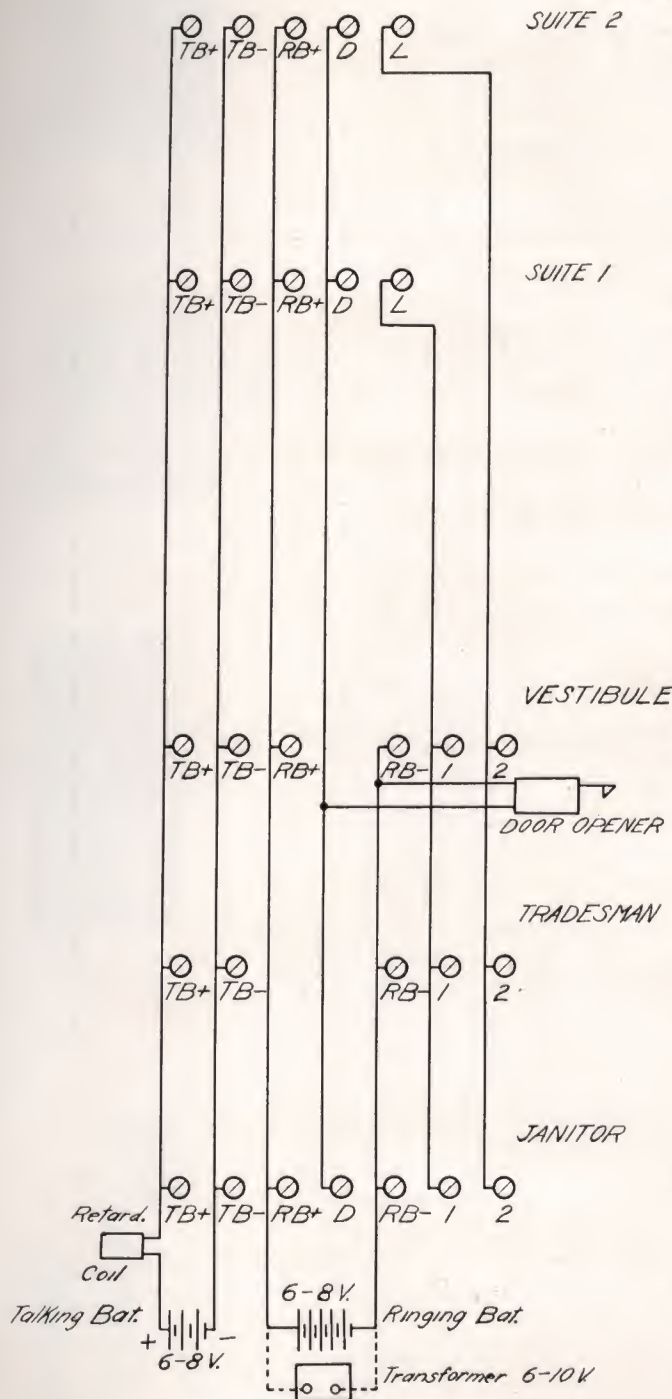
Use No. 732—Page 8 for the janitor's telephone annunciator. Other apparatus same as for System A-3.

Wiring

Use System A3, but omit common wire marked "J" and replace it with section wire from the vestibule and each apartment to the janitor's telephone.

Diagram furnished upon request.

Note: When ordering specify whether transformer or batteries are to be used for ringing.



SYSTEM A-3



System A-43

Selective Ringing—Selective Talking

Entrance Hall Master Station and Apartments

Service

Entrance hall can call apartments. Apartments can call entrance hall, drop on master station indicating which apartment is calling. Apartments can be connected together by operator at master station.

Apparatus

Use **No. 736** for entrance hall master station (see page 9). **No. 7001**—1 button flush telephone or **No. 7051**—1 button surface telephones may be used in the apartments (see page 5).

Wiring

One wire common to master station and all apartments.
Two section wires from each apartment to the master station.
Diagram furnished upon request.
Note: Can be operated on direct current only.



No. 736

System SB

With Lamp or Drop Switchboard

Entrance Hall or Lobby, Apartments, Janitor, Laundry, Etc.

Service

Entrance hall can ring and talk with any outlying station.
Outlying stations call entrance hall by removing receiver from hook.
Operator in entrance hall can connect outlying stations together.

Apparatus

No. 700 or **No. 705**, no button telephones for outlying stations.
Any type of lamp signal switchboard may be used.

Wiring

One common wire from switchboard to each outlying telephone.
Two section or direct wires from switchboard to every outlying telephone.

Batteries

A 24-V. storage battery should be used. Where 110-V. D. C. is available, we recommend the use of our Authostat for the operation of telephone switchboards.

If necessary the system may be arranged for dry battery operation.



No. 775

Flush Wall Type
Lamp Switchboard



No. 7051

Two-Party Telephones

System PL-2—Two Wires, Two Sets of Batteries

System PL-3—Three Wires, One Set of Batteries

Telephones may be No. 7051, Wall Type, or No. 7501 Desk Telephone.

No. 7501—is a standard desk telephone with one button in the base and is connected by 6 ft. of cord to a terminal box containing a buzzer and terminal strip. List



No. 740

Selective Ringing, Common Talking

System M. S.

Service: Common talking, only one conversation may take place at a time. Any station can ring and talk with any other station.

No. 740—Surface Wall Telephone. Watchcase receiver. Standard finish black.

Catalog Number	Number of Buttons	List Price	Catalog Number	Number of Buttons	List Price
740-4	4	.....	740-10	10	.....
740-6	6	.....	740-12	12	.....
740-8	8	.....			



No. 741

No. 741—Flush Wall Telephone. A brass plate telephone furnished with a wood back box for Flush Mounting. Watch case Receiver. Standard finish black.

Catalog Number	Number of Buttons	List Price	Catalog Number	Number of Buttons	List Price
741-4	4	.....	741-10	10	.....
741-6	6	.....	741-12	12	.....
741-8	8	.....			



No. 750

No. 750—Standard Desk Telephone with buttons mounted in the base. Connected by six feet of cord to a terminal box containing a buzzer and terminal strip.

Catalog Number	Number of Buttons	List Price	Catalog Number	Number of Buttons	List Price
750-1	1	.....	750-5	5	.....
750-2	2	.....	750-6	6	.....
750-3	3	.....	750-7	7	.....
750-4	4	.....	750-8	8	.....

No. 70—Impedance coil List



Central Station System—Common Talking

System MC and MC-1

Service

Master station can selectively ring any outlying station. Every outlying station can ring and talk with the master station. Outlying stations may talk to each other by first calling the master station. The master station will then call the party desired. Only one conversation may be carried on at a time. In system MC-1, the central or master station has an annunciator to indicate where the calls originate.

Central Station Telephones

No. 740 Surface Wall Type

Hinged case wall telephone, enclosed buzzer, watch case receiver and metal mouthpiece Black finish. See Page 17.

No. 755 Desk Telephone with Button Mat

A standard desk telephone with adjustable transmitter and long pole receiver connected by six feet of cord to a wall box containing buzzer and terminals. The calling buttons are on a push button mat which is connected to the terminals in the wall box by six feet of cord. Finish: Black.



No. 740



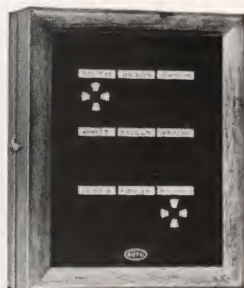
No. 755

Catalog Number	Number of Buttons	List Price
755-4	4	.....
755-6	6	.....
755-8	8	.....
755-10	10	.....

Catalog Number	Number of Buttons	List Price
755-12	12	.....
755-14	14	.....
755-16	16	.....
755-20	20	.....

No. 750 Desk telephone with push buttons mounted in the base. See page 17.

No. 765 Central Station Desk Telephone with push button mat, terminal box and an Auth electric reset annunciator. The Annunciator indicates the origin of each call and registers calls made during the absence of the operator of the master station.



Catalog Number	Number of Stations	List Price
765-12	12	.....
765-16	16	.....
765-20	20	.....
765-25	25	.....
765-30	30	.....

Outlying Telephones

No. 7051 Surface 1-Button Wall Telephone for outlying stations. (See page 6.) List Price

No. 7001 Flush 1-Button Wall Telephone for outlying stations. (See page 6.) List Price

No. 7501 Desk Telephone for outlying stations. (See page 17.) List Price

No. 70 Impedance Coil. List Price



No. 765

ARCHITECT'S SPECIFICATIONS

Complete information concerning service, apparatus and wiring for each system will be found on pages 11 to 18.

The Contractor shall furnish and install an Auth telephone system No. (....) giving service between (insert service of system designated).

Mail Boxes shall be the Auth Type C. One receptacle must be provided for the Janitor and one for each apartment (specify arrangement of mail boxes).

Vestibule Telephone shall be No. (specify catalog number and type) and shall be installed:

1. Remote from the mail boxes
2. In a combination group with the mail boxes (see Page 3) } Specify which

Apartment Telephones shall be No. (specify catalog number) and shall be mounted approximately 4 ft. 10 in. from the floor.

Janitors' Telephone shall be No. (specify catalog number).

Tradesmen's Telephones shall be No. (specify catalog number).

Wiring—All wires shall be double braid rubber covered wire no smaller than No. 19 B & S gauge. All wires shall be installed in accordance with the manufacturers' diagram for system No. (insert designated system) and shall be free from grounds and short circuits before the installation of the telephones.

Current Supply—Batteries and Transformer shall be installed in a suitable compartment and shall have the voltage specified on the manufacturers' diagram.



Authostat—Low Tension Current Supply To Operate Annunciators—Bells—Telephones—Clocks— Fire Alarms—Burglar Alarms—Emergency Lights

Various voltages for operating different types of apparatus such as Annunciators, Bells and Telephones may be obtained from one Authostat by means of counter cells. This is an advantage in apartment houses which have annunciators and telephones in addition to the door bells.

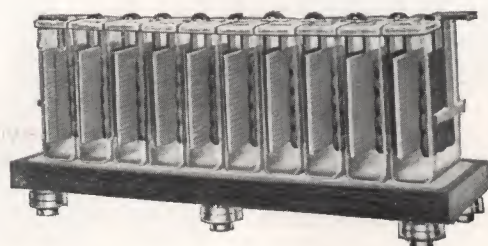
Authostat—DC Type (Improved)

Operates with no attention at little cost. Produces steady direct current always.
Operates directly from city lighting supply. Delivers voltages from 8 volts up.
Storage battery is kept charged and ready for use by the Automatic Charger.
Easily installed. Simple and positive in action. Cannot get out of order.



Patent applied for
AUTHOSTAT CATALOG 110-DC-24
Supplies Constant Voltage at Varying Loads (D. C.)

DIMENSIONS
Height 17" Width 12" Depth 8"



10 "CT" Cells on Sand Tray

Apparatus

The Authostat consists of an automatic storage battery charger complete with storage battery and battery box.

Storage Battery

Only the Exide Chloride Accumulator type of battery, specially designed for this class of service is furnished. The PT type (24 amp. hr.) is recommended for this service in general. The CT type (12 amp. hr.) is only recommended for small installations, for open circuit work, where the loads are 1 ampere or less.

Automatic Charger

Consists of a panel which always keeps the battery charged and ready for use without attention.

Counter Cells

Enable a battery of a fixed voltage to deliver varying voltages with none of the unequal conditions of capacity and voltage which result from other methods of securing different voltages from one battery.

Battery Box

Wood box painted with two coats of black asphaltum acid-resisting paint, completely enclosing and protecting the storage battery.

Catalog No.	Volts	PT Type List 24 A. H.	CT Type List 12 A. H.	Note
110-DC-10	10	\$300.00	\$280.00	Price includes Automatic Battery Charger with battery of type chosen, and battery box.
110-DC-12	12	312.00	287.00	
110-DC-14	14	324.00	294.00	
110-DC-16	16	336.00	301.00	
110-DC-18	18	348.00	308.00	
110-DC-20	20	360.00	315.00	
110-DC-22	22	372.00	322.00	
110-DC-24	24	384.00	329.00	

Obtaining Different Voltages by Using Counter EMF Cells

Counter cells are placed in battery box with battery.

Catalog No.	Volts	PT Type List	CT Type List	Note
110-DC-10-20	10 & 20	\$415.00	\$370.00	These prices include the counter cells needed to give voltages indicated in addition to the apparatus listed above.
110-DC-12-24	12 & 24	445.00	390.00	
10-DC-8-16-24	8, 16 & 24	457.00	402.00	

To Obtain Intermediate Voltages

For reducing battery voltage 4 volts list \$37.00
For reducing battery voltage for each succeeding
2 volts list 6.00
20



Auth Connection or Terminal Strips



Type T-26



Type TC-52

Auth Type T Connection Strips were designed to provide a neat compact, and workmanlike means of terminating cables; one which would eliminate the expensive job of forming and lacing cables, which is necessary with the old type strips.

Auth Type T Connection Strips are installed in pairs. Each strip has 26 locknuts. A "unit" or pair of strips, therefore, having 52 locknuts and providing a 26-pair cable. The 26 locknut strips can, of course, be used separately. For larger cables, "units" are combined. Strips are regularly furnished complete with wire channels and mounted on a $\frac{1}{2}$ -inch wood backboard. Only two screws are required to mount backboards in box, which means less labor to install.

..... List Price

Cat. No.	List Price
T-26 Locknut Strip only, with 26 Terminals (13 pair)	
TC-26 Single Unit only, 26 Terminals, mounted on Form Strip with numbered Fibre Pieces (13 pair).....	
TC-52 Double Unit, 52 Terminals, mounted on Form Strip with numbered Fibre Pieces (26 pair)	

Separable Connectors

Auth Separable Connectors not only make a better job, but they will save their cost in time saved in making connections and testing. Connections can be made in a fraction of the time required to make a proper splice. Many troubles in low-tension systems are caused by the splices in outlet or floor boxes.

Individual testing of lines or apparatus is easily accomplished by removing the plug from the receptacle. This method leaves all connections intact, and after the test is completed the plug is inserted into the receptacle, giving instant service.

Skilled labor unnecessary to connect or remove apparatus.

Catalogue No. WF 10

Type: Wall flush.

Capacity: Unlimited. 10 wire type fits standard switch box with single cover; 20 wire fits switch box with 2 gang cover, etc.

Material: Bronze only.





PRICE LIST AND INDEX FOR TELEPHONE BULLETIN No. 14-B

March 1927

Page 2

List

Combined Mail Box and Vestibule Telephone

Type C mail box, per box	6.00
Loud speaking telephone	37.00
Rocker Arm Telephone	45.00
Armored Cord telephone	30.00
Add for each additional button	1.10

Selective Talking System

Armored cord receiver	
Swinging arm receiver	
Add for each button	

Page 3

Type C mail box, per box	6.00
Type CS mail box, with push buttons	6.50
Type CB buttons in letter box compartment, complete with buttons	7.00
No. 795—Push button plate, 12 buttons	12.00
Add for each additional button	1.00

Page 4

Dimensions of Type C Mail Box with and without Vestibule Telephones

Page 5

Apartment Telephones Flush Type

No. Buttons	Cat. No.	
0	700	13.70
1	7001	13.70
2	7002	15.00
3	7003	16.30

Surface Type

0	705	13.70
1	7051	13.70
2	7052	15.00
3	7053	16.30
Special finishes, add to list		10%

Page 6

List

Vestibule Telephones

Cat. 710—No buttons	37.00
Cat. 720—No buttons	45.00
Cat. 715—No buttons	30.00
Add for each button required	1.10

Page 7

List

Janitor's and Tradesmen's Telephones

Common talking—One vestibule

No. 721 and 7210	13.70
No. 727 and 7270	27.00
No. 724—4 button	29.00
No. 726—4 Button	38.00
Add for each additional button	1.10

Tradesmen's Telephone

No. 722—4 button	29.00
Add for each additional button	1.10
No. 723—4 button	29.00
Add for each additional button	1.10

Janitor's Telephone

Two vestibule—Sectional talking

No. 7299	21.70
No. 729 and 7290	35.00

Continued on Page 8.

Page 8

List

No. 739—4 button	37.00
Add for each additional button	1.10
No. 728—4 button	46.00
Add for each additional button	1.10

Tradesmen's Telephone

No. 722—4 button	29.00
Add for each additional button	1.10
No. 723—4 button	29.00
Add for each additional button	1.10

Telephone Annunciators. Janitor's Answering and Calling Telephone Annunciator

Common Talking

No. 732

No. Stations

16	175.00
20	197.00
25	224.50
30	252.00
36	285.00
42	318.00
49	356.50
56	395.00

Continued on next page



Price List and Index Continued

Page 8 (Continued)

List

64	.439.00
72	.483.00
81	.532.50
90	.582.00
100	.637.00
Add for each additional drop over 100	5.50
No. 733—Add to list prices of No. 732	6.00
No. 734—2 section 12 apartments	185.00
Add for each additional section	40.00
Add for each additional apartment per section	5.00
No. 735—2 section 12 apartments	195.50
Add for each additional section	45.00
Add for each additional apartment per section	5.50

Page 9 (Continued from Page 8)

List

No. 737—2 section set	100.00
Add for each additional section	24.00
Add for each additional button	1.40
No. 738—2 section set	110.00
Add for each additional section	35.00
Add for each additional button	1.40
No. 730—2 section annunciator	62.00
Add for each additional section	12.00
No. 731—2 section annunciator	80.00
Add for each additional section	22.00

No. 736:

No. Stations

List

16	.175.00
20	.197.00
25	.224.50
30	.252.00
36	.285.00
42	.318.00
49	.356.50
56	.395.00
64	.439.00
72	.483.00
81	.532.50
90	.582.00
100	.637.00
For each additional drop over 100 add	5.50

Telephone Switchboard Lamp Type

Page 10

List

No. Signals	Cat. No. 770-775-772	Cat. No. 771
20	370.60	470.00
25	417.40	482.40
30	429.10	494.10
35	444.40	509.40
40	456.10	521.10
45	502.90	567.90
50	514.60	579.60
55	529.90	594.90
60	541.60	606.60
65	588.40	653.40
70	600.10	665.10
75	615.40	680.40
80	627.10	692.10
85	648.60	713.60
90	670.10	735.10
95	691.60	756.10
100	713.10	778.10
Add for each additional 5 lines over 100		21.50

Pages 11 to 18

Telephone Systems and Wiring Diagrams

Page 19

Architect's Specification

Page 20

Authostat Low Tension Current Supply

Page 21

Terminal Strips and Separable Connectors



The Auth Electrical Specialty Co., Inc.

422-430 East 53rd Street

New York City

Lists of Agents

A. H. ABBOTT
88 Broad Street
Boston, Mass.

H. J. WELLS
622 Murphy Bldg.
Detroit, Mich.

ELECTRIC SALES CO.
103 Mercer Street
Baltimore, Md.

WESCO CO
7th and Lawrence Streets
Denver, Colo.

E. E. VAN CLEEF
53 W. Jackson Blvd.
Chicago, Ill.

ELECTRIC SALES CO.
1612 Maple Avenue
Los Angeles, Calif.

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WALKER LILLY ELEC. CO.
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H. F. NELSON
519 University Bldg.
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BYCK ELECTRIC CO.
137 Bull Street
Savannah, Ga.

J. J. NOBLE
915 Bryant Street
San Francisco, Calif.

JOHN WINKLER
141 East 4th Street
Cincinnati, Ohio

E. P. AIKENS
2401 Chestnut Street
Philadelphia, Pa.

W. A. McCOMBS CO.
802 Westinghouse Bldg.
Pittsburgh, Pa.

AUTH ELECTRICAL SPECIALTY Co.

422 East 53rd Street, New York City



September 17, 1928

BULLETIN No. 20

ANNUNCIATORS AND SIGNALLING APPARATUS



Desk Lamp Annunciator

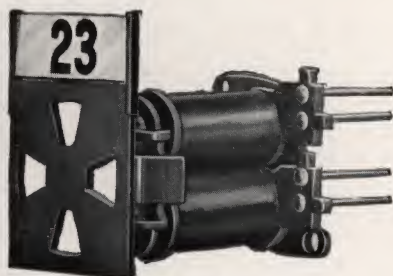
THIS LINE OF ANNUNCIATORS HAS BEEN DEVELOPED TO MEET THE DEMAND FOR HIGH GRADE SIGNALLING SYSTEMS FOR BANKS, OFFICES, SCHOOLS, RESIDENCES, OR WHEREVER RELIABLE SIGNALLING SERVICE IS REQUIRED. WE GUARANTEE ALL OF OUR APPARATUS.



Annunciator Drops

Target Type (Electrical Reset)

No. 500



Target Electric Reset Drop
D. C. only
No. 500

The most sensitive drop made. It requires less than one-fifth of a watt to operate it. It is positively locked in both the set and reset positions by a strong magnetic lock. The motion of the target is only one-quarter of a revolution. It will operate in any position. It has been proven to be the most reliable annunciator drop on the market.

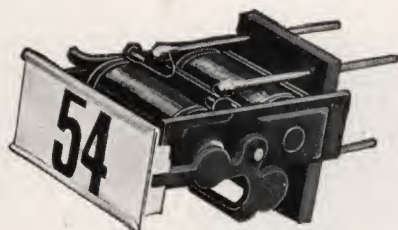
It is especially adaptable for use in annunciators operating in multiple. On account of its magnetic locking feature the No. 500 drop can be used on direct current only.

Each drop has an easily detachable card holder.

No. 500.....List Price \$6.00

Rectangular Type (Electric Reset)

No. 501



Rectangular Electric Reset Drop
A. C. and D. C.
No. 501

The Auth rectangular or No. 501 electric reset drop operates on the principle of a scale balance, gravity assists in both the set and reset movements of the shutter. The indication is of the disappearing type. No indication can be seen until the drop is in the set position.

The drop is locked in both the set and reset positions by a strong mechanical lock. The indication cannot be changed by heavy vibration or displacements from the correct position. This feature makes it an excellent drop for marine work.

The No. 501 drop is adaptable for annunciators operating in multiple. It can be used on either alternating or direct current.

No. 501.....List Price \$6.00

Made for operation on A. C. and D. C. Circuits.

Relay Drops

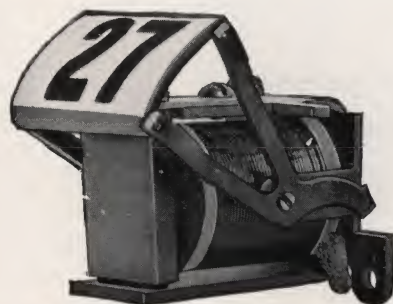
No. 501 drops may be furnished with contacts to operate pilot lamps or bells on a local or extension circuits. The contacts remain closed while the drop remains in the set position.

Gravity Type Mechanical or Hand Reset Drop

A rugged, compact drop, simple in construction, operating on the principle of three poles. It has a heavy steel frame and armature. The markings are removable. Armature is adjustable. The Auth Gravity Drop requires a minimum of current, is positive in operation and is ideal for Fire Alarm, Burglar Alarm, Elevator, Marine, House and Factory use. Can be furnished with local contact.

No. 502.....List Price \$4.00

Made for operation on A. C. and D. C. circuits.



Gravity Hand Reset Drop
A. C. and D. C.
No. 502

Resetting

No. 501 and No. 500 drops may be reset individually or collectively at the annunciator or at a location remote from the annunciator. The standard arrangement is to have the drops reset collectively by a reset button on the annunciator.

No 502 Gravity drops can only be reset manually at the annunciator.

Automatic Reset

No. 502 and No. 501 electrical reset drops may be arranged for automatic reset in which case the last drop set automatically resets the previously indicating drop.



Gravity Type Mechanical Reset Annunciators

Gravity Type Mechanical or Hand Reset Annunciators

The No. 505 annunciator is a high grade, finely finished instrument. Only the best type gravity drops are used. A high grade buzzer is furnished inside the case. Terminals are easily accessible. Operates on 8-10 volts D. C. or 18-24 volts A. C. The case is made of wood or metal. Standard finishes, mahogany and oak.



No. 503



No. 504

Gravity Annunciators Mechanical or Hand Reset

No. of Drops	No. 503 Metal	No. 505 Wood or Metal	No. 504
2	\$13.16	\$17.00	\$ 9.95
3	14.94	20.00	11.60
4	16.56	23.00	13.20
5	19.58	26.00	16.55
6	19.58	27.00	16.55
8	22.96	32.00	19.60
10	26.26	39.00	22.95
12	29.44	46.00	26.15
14	35.44	53.00	30.55
16	41.44	60.00	34.95
18	47.44	68.00	39.35
20	53.44	75.00	43.75
Add for each additional drop	3.00	4.00	2.20

No. 503—Gravity annunciator hand reset. The case is sheet steel finished white enamel, mahogany no extra charge. Special finishes extra.

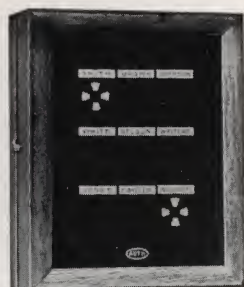
No. 504—Gravity annunciator, hand reset. Standard finish, Black. No extra charge for oak. Special finishes extra.

Special Features and Finishes on Annunciators

Add to List

	No. of Drops 4 to 10	No. of Drops 12 to 25	No. of Drops 26 to 50	No. of Drops 50 or over
Special finishes.....	\$ 6.00	\$ 8.00	\$12.00	\$16.00
Special arrangement of drops.....	6.00	8.00	12.00	16.00
Solid bronze or brass cases or trims.....	12.00	20.00	30.00	50.00
Individual reset buttons, add to list per button.....				\$ 4.00
Individual reset terminals only, add to list.....				.60
Switches on case one or two point add to list per drop.....				3.50
New glass per drop.....				.60
Voltage 25 to 40 Volts add to list per drop.....				1.00
Special markings other than number per drop.....				.30
Add for bell.....				3.00
Automatic reset up to 12 drops.....				6.00
Automatic reset 13 to 30 drops.....				8.00
Automatic reset 30 or more.....				10.00

STANDARD APPARATUS CARRIED IN STOCK



No. 510



No. 520



No. 530



No. 535



No. 535-3

Electric Reset Annunciators

No. 510 Surface Type with No. 500 Target Drops

Wood or Metal case. Buzzer inside of case. Standard Finishes: Oak and Mahogany. This type of annunciator can be made with automatic reset and is especially adapted for systems having several annunciators in multiple. Can be used on direct current only.

No. 520 Surface Type with No. 501 Rectangular Drops

Wood or Metal case. Buzzer inside of case. Standard Finishes: Oak or Mahogany. May be used on either A. C. or D. C. current and can be made with automatic reset and for multiple operation.

Specify voltage and current when ordering.

No. 530—Flush Type—No. 530-2

Made in both Target and Rectangular Drop Type. Metal outlet box furnished without additional charge. We recommend all flush annunciators be furnished with Auth Separable Connectors.

Metal trim. Standard Finishes: Oak, Mahogany, and Prime White.

No. 530—With No. 500 drop, for DC current only.

No. 530-2—With No. 501 drop, for DC or AC current.

Desk Type

No. 535—Inclined face wood, desk annunciator. Standard Finishes: Oak and Mahogany. No. 500 drops.

No. 535-1—Same as No. 535 but with No. 501 rectangular drops.

No. 535-2—Straight face desk annunciator. Standard Finishes: Oak and mahogany. No. 500 target drops.

No. 535-3—Same as No. 535-2 but with No. 501 rectangular drops.

Standard equipment for all desk annunciators includes 6 feet of silk cord

No. Drops	No. 510 No. 520	No. 530 No. 530-2	No. 535 No. 535-3
3	.....	.....	\$ 44.00
4	\$ 26.00	\$ 60.00	52.00
5	.....	.....	60.00
6	32.00	66.00	68.00
8	38.00	72.00	84.00
10	44.00	78.00	100.00
12	52.00	86.00	.....
16	68.00	102.00	.....
20	84.00	118.00	.....
24	100.00	134.00	.....
Each additional drop add to list	5.00	5.00	8.00

Standard Operative Voltages: Direct current, 10-12 V. Alternating current, 18-24 V.

Standard Finishes: Oak and Mahogany.

Additional Reset Buttons or Individual Reset Buttons: Add to list, each, \$4.00.

Removable Drops: Price

Constant Ringing Relay: Add to list price, \$3.00.

For Installing Separable Connectors: (Recommend the use of Auth Wall, Floor or Desk Connectors.) Price

Bell instead of Buzzer: Add to list price, \$3.00.

Printed Numbers are furnished as standard markings.

Markings Other than Standard: Add to list price, 30c each.



Elevator Annunciators

Elevator Push Button Plates



No. 110

The double button plates are used in connection with "UP and DOWN" elevator annunciators. The single buttons are used with annunciators having a single indication for each floor and on the top and bottom floors of buildings where UP and DOWN systems are installed. The case is a substantial casting. Standard finish is black enamel.

The contacts are heavy and positive in action.

No. 110 surface type 1 button size $5\frac{1}{4}" \times 3"$ Price List \$5.00
No. 110 surface type 2 button size $5\frac{1}{4}" \times 3"$ Price List 6.00

No. 541

No. 541 is a metal case annunciator for operation on direct current only. It can be made for "UP" and "DOWN" service with group or individual electric reset.

No. 542

No. 542 differs from No. 541 in the type of indication. It can be made for operation on direct or alternating current.

No. 543 "UP and DOWN" Annunciator

The No. 543 annunciator has a metal case, standard finish black. The indication may be round spot as indicated in the illustration or rectangular. The face of the annunciator is heavy sheet steel with an individual glazed opening cut out for each drop. Either alternating or direct current may be used. Cat. No. 543 annunciator may be made with group electric reset at the annunciator or with individual electric reset for operation with automatic reset devices.

No. 544

No. 544 Annunciators are usually made for "UP" and "DOWN" service. Distinctive colored opals are used to differentiate the "UP" and "DOWN" indications. The standard annunciator has a heavy sheet bronze case, standard finish is natural brushed bronze. The relays are located in a cabinet remote from the annunciator, usually at the top of the elevator shaft. Slide base lamps are furnished. The annunciator may be relamped without opening or removing the case. No. 544 annunciators are made with group reset and with individual reset for operation with automatic reset devices. They may be operated on either alternating or direct current.



No. 541



No. 542



No. 543



No. 544

Elevator Annunciators

No. of Drops	GRAVITY	ELECTRICAL RESET		LAMP TYPE
	Gravity Drop No. 545 Wood	Single Row No. 541-2-3 Metal	Double Row No. 541-2-3 Metal	No. 544 Metal
4	\$15.70	\$36.00	.....	.....
5	17.14	39.00	.....	.....
6	18.70	42.00	\$52.00	\$130.00
7	20.24	45.00	.....	150.00
8	21.92	48.00	58.00	165.00
10	24.90	54.00	64.00	200.00
12	28.10	62.00	72.00	240.00
14	36.30	70.00	80.00	280.00
16	44.50	78.00	88.00	320.00
18	52.70	86.00	96.00	360.00
20	60.60	94.00	104.00	400.00
Each additional drop	4.10	7.00	7.00	18.00
Add for flush	.....	50%	50%	.....



Push Buttons

No. 110 High Grade Desk Push



No. 106

This push is furnished with wood or metal base. All bases are weighted and have felt covered bottoms. Top plates are solid brass with beveled edges and polished nickel finish. Buttons are slightly recessed so that false signals cannot be sent by placing heavy objects on top of the push. Markings can be inserted or changed without the use of tools. The button mechanism is the same high grade type furnished in the No. 106 and 107 all metal directory mats. Standard Finishes: Oak and Mahogany.

No. 105 Desk Push



No. 105

This push is furnished with wood or metal base. Top plates are brass polished, nickel finish. Bases have felt covered bottoms. Standard Finishes: Oak and Mahogany.

No. 106 and No. 107 All Metal Desk Pushes

No. 106 and No. 107 all metal desk pushes are described on page 36. They are heavier in construction than the ordinary push, unbreakable, and represent the best quality in desk push design and finish.



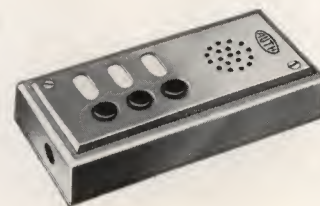
No. 109

No Buttons	No. 105 Without Cord	No. 105-C 6 ft. Cord Attached	No. 110 Without Cord	No. 110-C 6 ft. Cord Attached	No. 101 Without Cord	No. 101-C With 6 ft. Cord
1	\$3.50	\$ 4.04	\$ 3.90	\$ 4.44	\$ 7.85	\$ 8.39
2	4.75	6.07	5.30	6.62	9.25	10.57
3	6.00	7.76	6.60	8.36	10.55	12.31
4	7.25	9.45	8.10	10.30	12.05	14.25
5	8.50	11.14	9.40	12.04	13.35	15.99
6	9.75	12.83	10.80	13.88	14.75	17.83
7	.....	.....	12.20	16.85	17.65	21.61
8	.....	.....	13.70	17.66	20.35	25.19
10	.....	.....	16.40	21.24	24.10	29.82
12	Std. Pkg.	.....	20.25	25.97	Ea. addl.	
14	5 Assorted	.....	24.25	.....	Button	5.95
16	.....	.....	28.25	.....		
18	.....	.....	32.25	.....		
20	.....	.....	36.25	.....		

No. 101

Combination Directory Mat and Buzzer

Same as No. PD but has a buzzer concealed in the base. The top plate is perforated to permit the emission of sound. This design eliminates extra wiring and makes a neater installation than the old method of fastening the buzzer to the desk. Standard finishes oak and mahogany.



No. 101



No. 110



Push Buttons



No. 114



No. 116

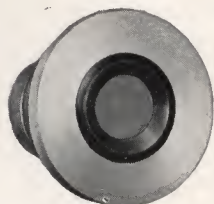
Metal Pear Push, No. 114. Turned from Solid Brass. Furnished with $\frac{5}{8}$ -in. Midget Push Button, making a fine, neat-looking unbreakable extension push. Finish—Brushed Brass—Standard.

Extension Push with Button.....List Price \$1.35
Complete with 6-foot Silk Cord.....List Price 2.50

Flush Wall Push

Flush Wall Push, No. 116. Standard Single-Gang Switch Plate with $\frac{5}{8}$ -in. Midget Button. Brush Brass Standard Finish.

1 Button.....List \$1.48
2 Button.....List 2.10



No. 118

Round Flush Outside Weatherproof Push Button, No. 118

Mounted in a Cast Bronze Flush Plate with leads for splicing.

List Price.....\$6.00

Entrance Push Buttons

Round Flush—Weatherproof—No. 119. Round Cast Bronze, screw top, push button case, with $\frac{3}{4}$ -in. Midget Push Button with Rawhide Diaphragm. Finish in Dark Bronze. Arranged for $\frac{1}{2}$ " conduit entrance.

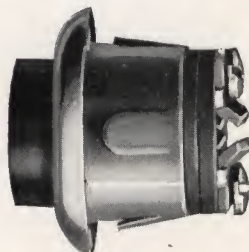
List Price.....\$7.00

Flush Rectangular Weatherproof Push Button No. 120

Same as WEP mounted in a cast bronze rectangular plate.....List Price \$7.00

Midget Push

Midget Push Buttons, No. 115. Insulated frame, scraping contacts. A very rugged Push Button. Brushed Brass and Nickel Rims. Standard Finish, Nickel.



No. 115

No.	List Price
115 - $\frac{5}{8}$ With Projecting Black Center—Std. Pkg. 50	\$0.39
115-1- $\frac{5}{8}$ With Recessed Center—Std. Pkg. 50	.42
115-2- $\frac{3}{4}$ With Recessed Center—Std. Pkg. 50	.77
115-3- $\frac{3}{4}$ Weatherproof, with Rawhide Diaphragm	2.00

All above Push Buttons are shallow type with flat screw terminals. All Push Buttons can be furnished with extended copper screw terminals. Add to List Price, per button,.....25c.

No. DA Desk Push

Black Ebony Desk Pushes, any number of buttons, standard finish black ebony.



No., DA

No. P Desk Push

All-Metal Desk Push Button Mat, made from Heavy Rolled Sheet Brass, finished Brush Brass. Weighted and felted bottom. Complete with PM Buttons.



Desk Push No. P-4

No.	List Price	Add to List
P-1 One Button.....	\$2.50	With 6 ft. Cord.....\$1.16
P-2 Two Buttons.....	3.00	With 6 ft. Cord.....1.72
P-3 Three Buttons.....	3.50	With 6 ft. Cord.....2.30
P-4 Four Buttons.....	4.00	With 6 ft. Cord.....2.88

Engravings on Push Buttons or Small Plates.

One or Two Numerals or Letters.....List Price \$0.50
Additional Numerals or Letters, each.....List Price .25

STANDARD APPARATUS CARRIED IN STOCK



Bells—Buzzers

No. 1700—Flush Wall Type Buzzer

Auth Buzzer mounted on back of Solid Perforated Single-Gang Plate. Will fit a deep Single-Gang Switchbox.



No. 1700



No. 1701

No.	List Price
1700 With Plate Finished Brushed Brass, low voltage	\$ 8.00
1700 With Plate Finished Brushed Brass, 110 volts	10.00

No. 1701—Indicating Buzzer

Has mounted on the cover an Annunciator Target Drop which indicates whenever the Buzzer rings. At the side of the Drop is a small lever for hand resetting. Recommended for use where more than one Buzzer is installed, thus avoiding confusion when answering.

Black Baked Enamel Finish. List Price \$7.00



No. 1702



No. 1703

No. 1702—Buzzers

High grade Buzzer with strong, efficient adjustments, having an Insulated Contact Spring with double adjusting screws and springs. Designed for severe service, requiring no attention after adjustment is once made. Finish, Black Baked Enamel. Bugproof, Rustproof, Fully Insulated.

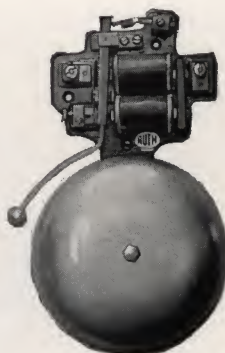
No. 1703—A. C. Buzzer

A high grade buzzer for alternating current only with a more pleasing tone than the ordinary armature buzzer. It requires no adjustments after installation. Can be furnished with three terminals to give two tones, one loud and one soft. Completely insulated. Finished with black baked enamel.

	List Prices			
	10 Volts	20 Volts	30 Volts	110 Volts
No. 1702...	\$2.00	\$3.50	\$4.00	\$8.00
No. 1703...	2.00	3.50	4.00	....



No. 1704



No. 1705

No. 1704—Enclosed Type Weatherproof Bells

Black Baked Enamel Finish—Nickeled Gong. Designed for efficient operation under severe service conditions. Only Silver Contacts are used. Insulated mechanism.

No. 1704

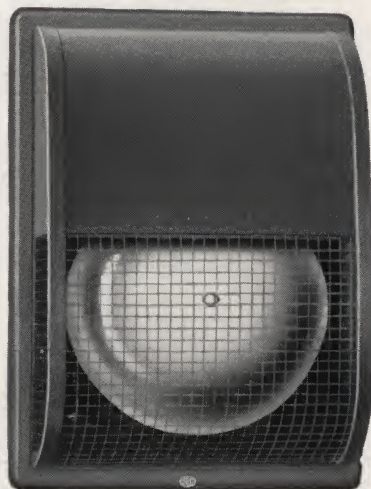
Size	6-V.	10-V.	20-V.	110-V.	Add for Part Grid	No. 1705 6 Volts Skeleton Bells
2 1/2"	\$ 3.00	\$ 4.00	\$ 5.00	\$10.00	.....	.....
3"	3.50	4.50	5.50	10.50	.....	.....
4"	10.85	11.85	14.85	19.10	.....	.....
6"	17.80	18.00	24.00	30.00	\$ 7.15	\$10.00
8"	22.00	22.00	28.00	37.00	9.70	16.00
10"	37.00	37.00	42.00	54.90	12.70	24.00
12"	49.00	49.00	56.00	67.00	17.20	30.00

No. 1706—Covered Outdoor Gong

The 1706 bell is designed for outdoor mounting.

It is mounted in a heavy wood mat and covered with a metal housing. All parts are treated to withstand weather conditions. Standard finish green.

10" Gong 12 Volts.....	List Price	\$78.00
24 Volts.....	List Price	80.00
110 Volts.....	List Price	90.00



No. 1706



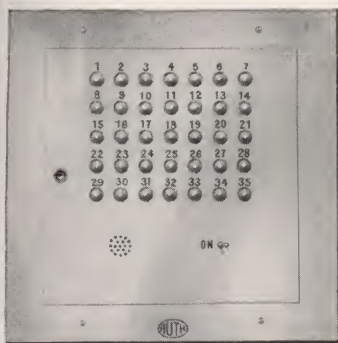
Bank Lamp Annunciators—General Description



Cat. No. 1500—Pigeonhole Lamp Type



Cat. No. 1501



Cat. No. 1502



Cat. No. 301-A

Quality

The lamp annunciators shown on pages 33 and 34 are of the highest quality and are designed to harmonize with the furnishings and construction details which are to be found in Banks and fine Offices.

Material

Heavy architectural bronze, $\frac{1}{8}$ " thick, finished to match surrounding bronze construction, is used for all plates.

Card Holders

Standard design includes a recessed card slot for each lamp on all annunciators. Cards may be easily removed and inserted. A number may be placed on each opal indication or engraved in the plate adjacent to the indication.

Relays

The annunciators shown on this page are designed to operate from momentary contact push buttons by the use of locking relays. They may, however, be operated without relays if locking buttons or switches are used for calling and resetting is done at the calling station. It is standard design to have the relays for all annunciators located in separate relay cabinets. Catalog 1504 and Catalog No. 1502 and 1506 may be constructed with the relays in the same case with the annunciators.

Resets

Resetting of lighted indications may be *group*, in which case a single reset button controls a number of indications, or *individual*, in which case each indication has a reset button.

Lamps

Catalog No's 1500, 1502, 1503 and 1504 are equipped with slide base lamps which may be easily removed and inserted without disturbing the plate. Catalog Nos. 1501 and 1506 have screw base lamps with provision for relamping.

Cat. 1500. Flush Lamp Annunciator

Catalog 1500 is a small lamp annunciator for flush mounting in a desk or an adjacent wall.

Cat. 1501. Small One Light Desk Annunciator

Catalog 1501 is a small one light desk annunciator having an unusual indication which is visible from all sides. The lamp may be easily replaced by unscrewing the lamp guard hood. Reset button in base.

Cat. 1502. Flush Lamp Annunciator

Flush lamp annunciator $\frac{3}{8}$ " opals, telephone slide base lamps, cut off switch, and concealed buzzer. Remote resets.

Cat. No. 301-A. Flush Lamp Annunciator

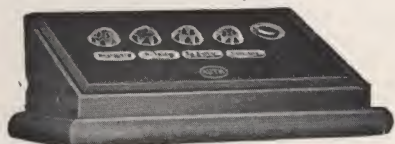
A heavy brass plate with marked opals. Indications can be seen only when the lamps are lighted. Has a cut off switch and concealed buzzer. Four indications fit a four gang cover of switch box. Six indications fit a five gang cover of a switch box.



Bank Lamp Annunciators

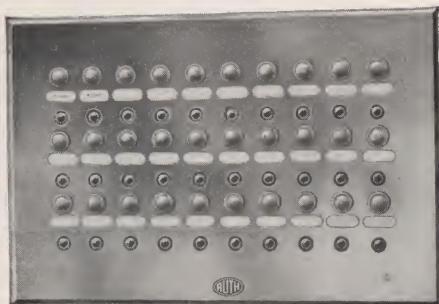
(Continued)

Cat. 1503. Desk Lamp Annunciator



Cat. No. 1503—Desk Lamp Type

Catalog 1503 desk lamp annunciator with beveled hard wood base to match desk. Lamps and cards may be removed and replaced without disturbing the bronze top plate. Calling buttons are sometimes placed on this type of annunciator. Standard equipment includes 6' of silk covered cord, which connects the annunciator to the relay cabinet usually placed in the clear space underneath the desk. The relay cabinet is a hardwood case finished to match the desk. Relays for this type of annunciator may be placed at a location remote from the desk. They are never placed in the same case with the lamps.



Cat. No. 1504—Group Reset
Cat. No. 1505—Individual Reset

Cat. 1504. Flush Lamp Annunciator

Catalog 1504 is a flush, wall type, lamp annunciator. Opal indications are $\frac{3}{8}$ " in diameter. Lamps and markings may be replaced without removing the plate. All catalog 1504 annunciators are completely equipped with Auth separable connectors so that the entire lamp plate may be removed by merely pulling the connectors from their sockets. It is customary to furnish the relays for operation of No. 1504 lamp annunciators in a separate steel cabinet. If necessary the relays may be placed in the same box with the lamp annunciator. This arrangement is not recommended because it increases the size of the annunciator considerably and spoils the appearance of the lamp plate.



Cat. No. 1506

Cat. 1506. Flush Lamp Annunciator

Catalog 1506 flush wall annunciator is equipped with screw base lamps and therefore has a trim and hinged door construction to facilitate relamping. The opal indications are $\frac{3}{4}$ " in diameter and have numbers which are visible when the lamps are lighted. Catalog 1506 annunciators are equipped with Auth separable connectors in the same manner as Catalog 1504.



Push Buttons for Banks for Ordinary and Emergency Calling

Cat. 1507. Knee Push



Cat. No. 1507
Knee Push

The knee push is designed for emergency calls. It is mounted on the vertical support of a counter, desk, or table convenient to the cashier so that by a slight movement of his knee he may send in an emergency call without the knowledge or interference of a person on the other side of the counter. The case of the push is bronze and an extra large plunger and heavy contact springs make a reliable contact. The knee push may be used on open or closed circuit systems.

Standard finish brushed bronze.

Cat. 1508. Counter Pushes With Emergency Button



Cat. No. 1508—Counter Push

The counter push is designed to fit flush in the top or sides of a counter or desk. The plate is heavy bronze and may have one or more calling buttons and an emergency button. The calling buttons are set flush in the plate so that false signals cannot be sent even though heavy objects are placed on top of the buttons. The emergency button is set in a deep recess and can only be operated by a deliberate pressure of the finger. Standard finish brushed bronze.

Cat. 1509 Flush Squeeze Push Cat. 1510 Surface



Cat. No. 1509—Flush Type
Cat. No. 1510—Surface Type

The squeeze push is set in or on the edge of a table or desk. It is an emergency push. To send in an alarm it is necessary to insert two fingers in a deep recess and squeeze two small levers together. It is impossible to send an accidental alarm with this push. The contacts are strong and reliable. Standard finish bronze.

Cat. 1511. Lock Type Squeeze Push

Same design as Cat. 1509 but has a locking device holding the contact after operation. Pressing a small concealed lever will release the contact springs and restore the circuit to normal.

Cat. 1512. Drawer or Desk Push



Cat. No. 1512

The Cat. 1512 plate can be set flush in a desk or a desk drawer. Each calling button has a separately removable marking. An assistance button may be placed on the plate. This button is slightly recessed and has a sharp pointed center to distinguish it from the calling buttons.

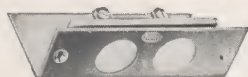
The buttons are furnished in single or double rows the full width of drawer. Standard finish brushed bronze.



Push Buttons for Banks for Ordinary and Emergency Calling

(Continued)

Counter Push Cat. 1514



Cat. No. 1514

The counter push is designed to fit flush in the edge of a counter or desk. The angle plate is bronze. Calling buttons set flush with the top of the plate. False signals cannot be sent even though heavy objects are placed on top of the buttons. Assistance or emergency pushes may be incorporated in the counter push. These are recessed and have sharp pointed centers to prevent false alarms.

Standard finish brushed bronze.

Cat. 1515. Edge Push



Cat. No. 1515

The edge push is similar to the counter push above, except that the plate is straight. It is designed to be set flush on the top or sides of a counter or desk.

Standard finish brushed bronze.

Cat. 1516. Membrane Push



Cat. No. 1516

The membrane push is an emergency push which may be mounted on a desk or in a desk drawer. The push button is covered with a heavy paper membrane which must be broken by pressure of a finger before the button can be pushed. This prevents tampering and accidental false alarms. The standard membrane push has a hardwood base with a removable top plate. A new membrane may be easily inserted by removing the top plate.

Cat. 106. All Brass Desk Directory Push



Cat. No. 106

The No. 106 directory push is of the highest quality in design, workmanship and materials. The all brass base makes it unbreakable and substantial. Top plate is $\frac{1}{8}$ " beveled brass and card holders are made so that directory cards may be removed or inserted without tools and without disturbing the top plate. The bottom is felt covered. Button springs are phosphor bronze and have scraping contacts. When ordered with cord attached, only the best silk cord obtainable is furnished.

Standard Finishes: Natural Brushed Brass, Oak and Mahogany.

Cat. 107. All Bronze Desk Directory Push

The No. 107 desk push is similar to the No. 106 push in design and workmanship. Both the top plate and the base are heavy solid bronze.

Standard Finish: Natural Brushed Bronze.



Bank Day Raid Alarm System

Bank Day Raid Alarm System

A completely supervised closed circuit alarm system operating on 24 V. A.C. or D.C. obtained directly from the lighting supply without the use of storage batteries.



No. 1577



No. 1520



No. 1544



No. 1545

No. 1577

Auth 24 V. siren for the alarm signal. Can be supplied with or without weatherproof housing. A large gong No. 1704 may be used instead of the siren.

No. 1520

Auth zone annunciator. The 2" lamp type indications indicate the station from which the alarm signal has originated. Operates on 24 V. Case may be flush or surface. Finished in natural bronze or Duco.

No. 1544

A complete closed circuit panel in steel cabinet with hinged door, lock and key. Equipment consists of apparatus for reducing 110 V. to 24 V. Closed circuit relay for each zone or station, cut out switch for each circuit, siren relay, locking type electric reset, siren cut off switch, main cut off, milliammeter, trouble bell, etc. All circuits completely supervised. Alarm operates if door is opened by an unauthorized person.

No. 1545

Auth foot rail switch, a substantial reliable alarm switch for the teller's cage. Made of heavy diamond grid steel. Finished in brown or olive green Duco. Standard lengths: 12", 18", 24".

No. 1532

Key switch for siren cut off. Usually placed at a convenient point on the main banking floor. It can only be operated by a special key. Will fit a standard single gang switch box.

Alarm Push Buttons

(See Pages 35 and 36)

- No. 1507
- No. 1509
- No. 1508
- No. 1516



No. 1532—Key Switch



No. 1507—Knee Push



No. 1509—Squeeze Push



No. 1508



No. 1516



Bank Foot Rail Switch

No. 1545

Description

The foot rail switch is an important part of a bank alarm system. It is designed particularly for mounting under the teller's counter and by the use of it the teller can send in an alarm without the knowledge or interference of an individual standing at the opposite side of the counter. As its application is not limited to banks, it is used wherever protection of this kind is needed.



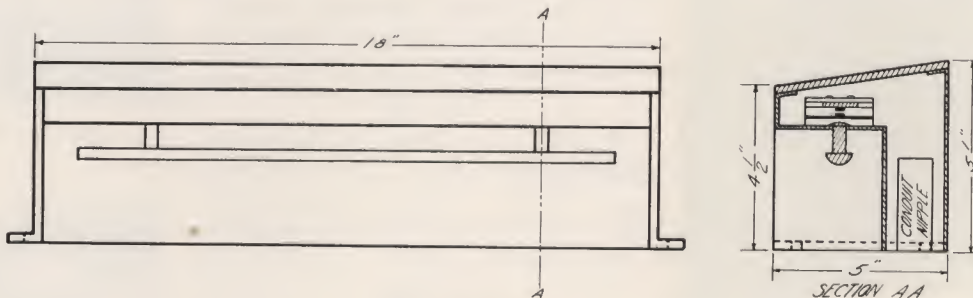
No 1545

Operation

Under ordinary conditions, the top of the housing at the foot rail switch serves as a foot rest for the teller. The alarm contact is made by placing the toe of the foot in the deep recess in the front of the housing and lifting the contact-making bar which runs the full length of the switch. False alarm, by accidental operation of the switch, is practically impossible.

The foot rail switch can be furnished with a locking mechanism which will lock the contacts in the alarm position, thus operating the alarm continuously until the contact bar has been deliberately reset by releasing the locking mechanism. No keys or tools are required.

The contact arrangement is flexible in design so that numerous arrangements of contacts can be made to fit various standard and special open and closed circuit systems.



Length

The overall length of the standard foot rail switch is 18". Longer switches may be ordered at an additional price per inch.

Construction

The base of the foot switch in which all the operating mechanism is mounted is made of heavy steel. The top plate which is removable is made of heavy diamond grid steel. The removal of the top plate gives full access to all the wiring terminals and the contacts. The switch housing is water and dust proof. Wires may be brought up from under the floor through a nipple into the wiring chamber which extends the full length of the housing. If it is desired, the wires may be brought into the side of the switch through a surface conduit. The wiring chamber is large enough to be used as a junction box.

Finish

The standard finish for the foot rail switch is olive green Duco. Other finishes to match floor coverings or furniture can be supplied.



Separable Connectors

Auth Separable Connectors not only make a better job, but they will save their cost by the time saved in making connections and testing. Connections can be made in a fraction of the time required to make a proper splice. Most troubles on low-tension systems are caused by the splices in outlet or floor boxes. As above stated, with Auth Separable Connectors splices are unnecessary, as each wire is held firmly in position by the fanning strip, making grounds and short-circuits an impossibility.

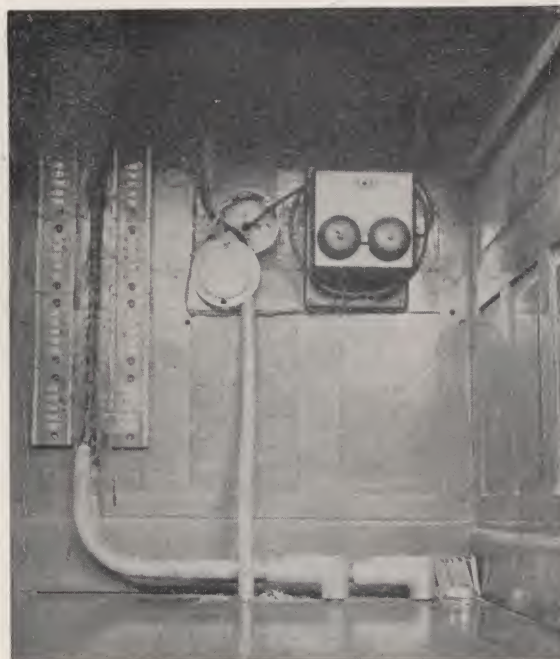
Among their advantages are:

1. Small and compact size.
2. Brass machine screw terminals; no soldering.
3. Much cheaper to install than to make a splice.



This shows the Auth way of handling an identical installation. The desk has been moved over to the right to show the Type C Connector.

The cost of the Auth method is less in labor and material. The difference in service and appearance cannot be measured in dollars and cents.



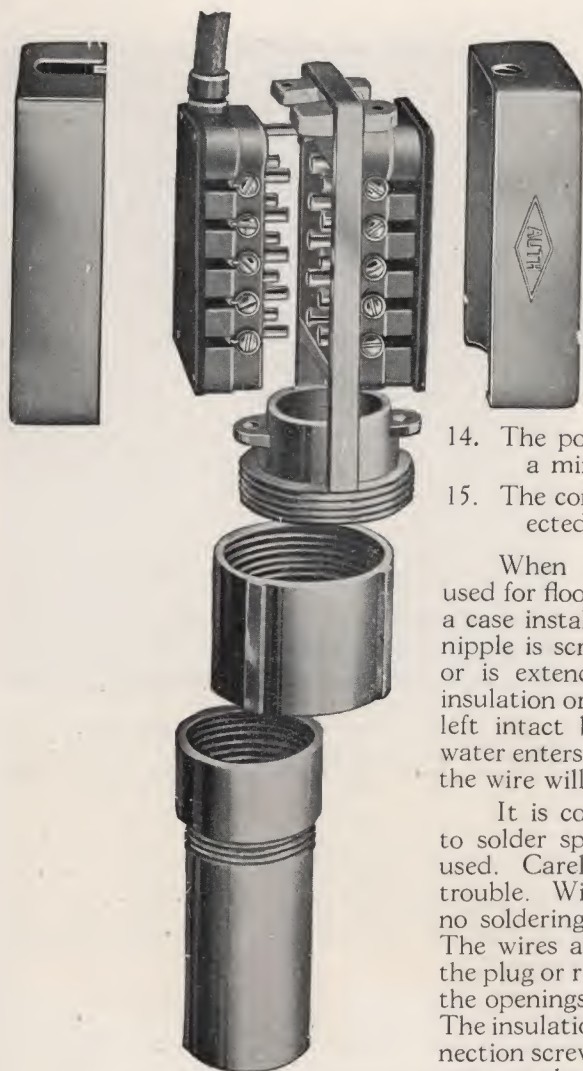
This shows recent and at the time approved practice in the installation of a 40 wire desk connection. It was considered efficient and modern. The desk is solidly anchored to the floor.

4. Lead-covered silk and cotton insulated cables may be safely used. This cable is better and cheaper than rubber-covered wire for this purpose and smaller conduits may be installed.
5. Conduit elbows or tee fittings may be used instead of floor boxes, making a cheaper, better and neater job.
6. All connections can be made and tested up to receptacles before a job is in condition to receive apparatus. When the apparatus is in place, it is only necessary to insert the plug. Testing out and connections are made together, which saves time and avoids mistakes.
7. Plugs may be attached to flexible cord by the manufacturer of the apparatus, eliminating the possibility of wrong connections, as well as saving time and money.



Separable Connectors—Floor Type

Advantages—Continued



8. Slots in back of strips make a poor job impossible.
9. Testing troubles in connecting are reduced to a minimum.
10. Each point is numbered, making it easy to keep a record of connections.
11. In case of trouble, cable and apparatus may be tested separately by removing plug from receptacle.
12. Signalling apparatus connected through Auth Separable Connectors may be easily removed from the wall for repairs.
13. When apparatus is located on a desk, the desk may be removed from the location of the outlet without disconnecting any wires.
14. The possibility of grounds is reduced to a minimum.
15. The connections are mechanically protected.

When Auth Separable Connectors are used for floor connectors they are contained in a case installed on a nipple of conduit. This nipple is screwed to the top of the floor box, or is extended from the floor outlet. The insulation or lead covering of wires is therefore left intact below the floor level, so that if water enters the floor outlet, as it usually does, the wire will be protected.

It is common for a workman to neglect to solder splices, and rubber tape is seldom used. Carelessness of this kind always causes trouble. With the Auth Separable Connectors no soldering or taping of wires is necessary. The wires are laid in the slot in the back of the plug or receptacle and fanned out through the openings opposite each connection screw. The insulation is left intact, except at the connection screw, and the fibre back over the slot protects the wires and holds them in place.



Type C: Floor mounting, tapped, including nipple. Standard fitting does not include coupling.

Material: Bronze.

Capacity: Unlimited.

Finish: Brush Bronze, Standard.

Cat. No.*	No. Wires	Coupling	Sizes Nipple	Height Overall, With Nipple	List Price, With Nipple
C-4	4	Not Included	$\frac{3}{4}$ "	7"	....
C-10	10	Not Included	$\frac{3}{4}$ "	7"	....
C-20	20	Not Included	$\frac{3}{4}$ "	7"	....
C-30	30	Not Included	1"	7"	....
C-40	40	Not Included	1"	7"	....

Cat. No. C-4 to C-40 are furnished with nipple tapped direct to Separable Connector. No coupling is required.



Auth Separable Connectors

In connecting a silk-and-cotton insulated cable to an Auth Separable Plug, the lead is removed only from the point where the cable enters the slot on back of the plug or receptacle and from this point the cable is protected by the fibre back. The cable is neatly fanned through the slots and shellaced. The advantage of the use of a lead-covered cable with the lead intact below the floor line is obvious.

By using Auth Separable Connectors lead cables can be connected without the use of a pothead.

A record can be kept of the service of each connection, as each wire is held in a definite and numbered position. This is a great advantage in making changes or in looking for trouble on the line or apparatus.

Individual testing of lines or apparatus is easily accomplished by removing the plug from the receptacle. This method leaves all connections intact, and after the test is completed the plug is inserted into receptacle, giving instant service.

New Buildings

The Auth Separable Connectors can be used in new buildings to a great advantage. An entire system of wiring can be connected to the receptacles and tested long before the building is in condition to have the telephones, annun-

ciators, push-buttons and other low-tension apparatus installed.

Push-buttons, telephones, pigeon-hole and drawer annunciators, as well as other apparatus, can be incorporated in the desk construction with flexible cable, and plugs installed. This work can be done before the desks are delivered at the building. When the desks are delivered, it is only necessary to insert the plug.

Wall Apparatus

Where wall apparatus is connected through Auth Separable Connectors, the wiring to the apparatus should be terminated in the receptacle which should be mounted on a back-board separate from the apparatus. The terminals of the apparatus should be connected to the plugs with a short semi-flexible cable.

Type WF: Flush wall mounting.

Material: Bronze.

Capacity: Unlimited—10-wire size fits single-gang switch box—20-wire size fits 2-gang box.

Finish: Brush Bronze, Standard.

Cat. No.	No. Wires	List Price
WF-4	4	....
WF-10	10	....
WF-20	20	....
WF-30	30	....

Larger Sizes Made to Order

Type D: Desk or surface wall mounting.

Material: Bronze.

Capacity: Unlimited.

Finish: Brush Bronze, Standard.

Cat. No.	No. Wires	List Price
D-4	4	....
D-10	10	....



Type W.F.



Type D



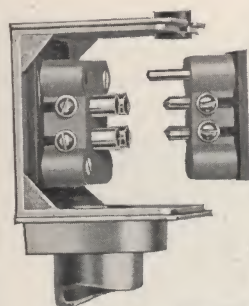
Separable Connectors and Desk Buzzer Stations



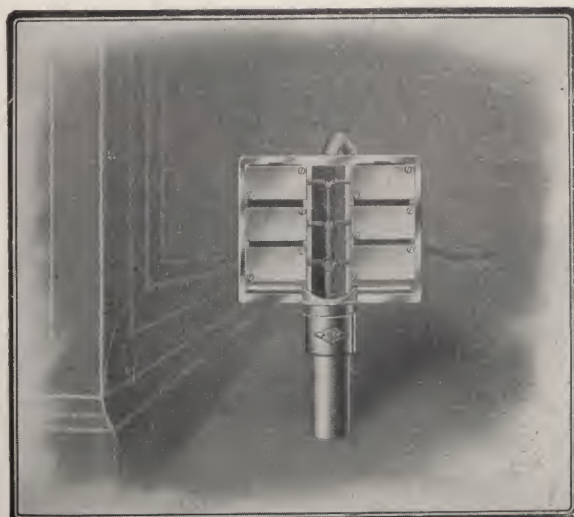
Buzzer for Desk
Cat. No. 1555



Desk Attachment
Plugs
Cat. No. 1556



Cat. No. DC-4



Cat. No. C-60

Cat. 1555. Desk Buzzer Stations

Auth desk buzzers are mounted in a bronze box on a floor nipple. Type C20 box will take a buzzer and a soft tone bell and a pair of wires for a telephone connection. Type C30 box will take a buzzer and a 10 pt. connector for a signal system, see page 46 for dimensions.

Cat. 1556. Desk Multiple Floor Attachment Plugs

For lamps, fans and adding machines, etc.

A number of 110 volt attachment plugs and receptacles are furnished in a bronze floor fitting on a nipple, 2 and 4 attachment plug will fit a C-10 box, 8 attachment plugs will fit a C20 box, see page 48 for dimensions.

Cat. DC4. Floor Separable Connector

DC4 arranged for floor mounting is tapped for and includes nipple. Furnished in 4 wires only. Costs less than type C4.

Material: Cast Bronze.

A good electrical and mechanical connection between two cables which could be easily disconnected for testing and other purposes. This has been particularly needed in making a connection between a cable installed in conduit up to a floor or wall outlet, and the flexible cable to a push-button mat, annunciator, telephone, or other apparatus located on a desk.

Cat. C60. 60 Wire Floor Separable Connector

This illustration shows a 60 wire type C connector with cover removed. The ease with which the connections may be made and tested is evident at a glance.

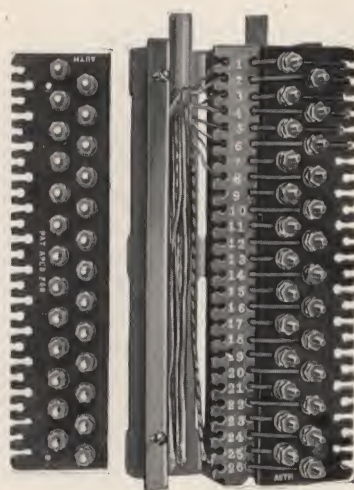
At no point can the wires come in contact with metal portions of the case. The possibility of grounds is thus reduced to a minimum.



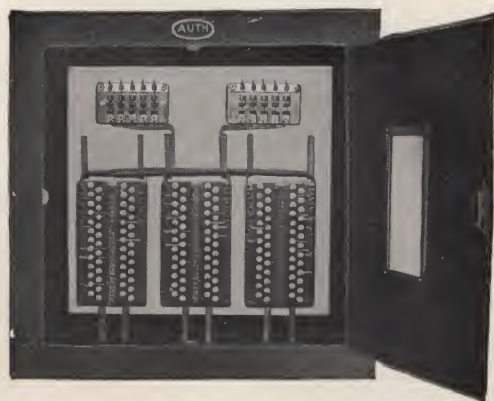
Connection or Terminal Strips



Type T-26



Type TC-52



Cat. No. 1553. Flush Type Interconnection Cabinet

Auth Type T. Connection Strips were designed to provide a neat compact and workmanlike means of terminating cables; one which would eliminate the expensive job of forming and lacing cables, so necessary with the old type of strips.

In terminating a cable on Auth Connection Strips the connection strip proper is removed from the metal form strip. The cable is laid in the exposed wire channel of the metal form strip; the individual wires are then placed in the numbered slots of the fibre piece. The connection strip proper is then replaced, the wires being spaced by the slots in the fibre piece so as to come exactly opposite the locknuts. Wires are then connected to the locknuts.

Cat. No.	List Price
T-26 Locknut Strip only, with 26 Terminals (13 pair).....	
TC-26 Single Unit only, 26 Terminals, mounted on Form Strip with numbered Fibre Pieces (13 pair).....	
TC-52 Double Unit, 52 Terminals, mounted on Form Strip with numbered Fibre Pieces (26 pair).....	
1553 Flush interconnection Cabinet, complete with trim and door and snap catch—one Type TC-52 Strip and one Type BS-5 Fused Battery Strip.....	
Add for each TC-52 Strip.....	
Add for each TC-26 Strip.....	
Add for each BS- 5 Strip.....	

Surface Type Cabinets Also Furnished

Cat. 1554. Terminal Strip Boards

Terminal strips, battery strips and cable straps can be mounted on a wood back board to the specifications of the contractor.

Outlet boxes may be purchased separately.

	List Price
Cat. 1554 without box:	
1 TC-52.....	
Each additional TC-52.....	
Each additional TC-26.....	
Each 5 point fuse strip.....	

Auth Type T Connection Strips are installed in pairs. Each strip has 26 locknuts. A "unit" or pair of strips, therefore, having 52 locknuts and providing for a 26-pair cable. The 26 locknut strips can, of course, be used separately. For larger cables, "units" are combined by butting them end to end and the cable is run up through the center wire channel on the form strip.



Terminal Strips and Battery Strips



Cat. No. TL

Auth Terminal Strips, Type TL, designed for large size wires and made in 5-pair units of 10, 20, 30, 40 and 50 terminals. Each connection has a brass number plate. The base is of heavy moulded Insulation with heavy non-turning brass studs, firmly embedded by the moulding process. Each wire is individually separated, passing through a hole directly opposite each terminal post. This eliminates use of form strips. Has 8-32 locknut terminals.

Cat. No.		List Price
TL-10	5 Pair Terminals.....	....
TL-20	10 Pair Terminals.....	....
TL-30	15 Pair Terminals.....	....
TL-40	20 Pair Terminals.....	....
TL-50	25 Pair Terminals.....	....

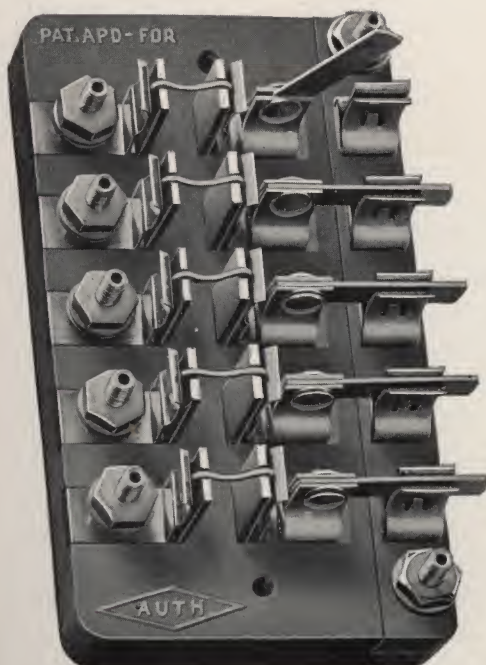
When ordering this type of terminal strip specify how strips are to be numbered.

Auth Fused Battery Strips

Auth Fused Battery Strips were designed to serve the same purpose in a low-tension wiring system as that served by a switchboard or panelboard in a lighting or power system.

Advantages

1. Protects batteries and motor generators against short-circuit.
2. Protects low-tension apparatus against short-circuits and burn-outs.
3. General protection against fire caused by grounds or short-circuits.
4. Fused circuits eliminate "feeding grounds."
5. Making testing easy. A knife switch is provided for each terminal.
6. In case of ground or short-circuit on any part of the system, that portion is automatically disconnected and the rest of the system is left in operation.
7. A blown fuse is an easy trouble finder.
8. Any section of the system may be easily disconnected for alteration or repairs.
9. Cheap fuse renewals.
10. Heavy locknut terminals.
11. Offer a neat and workmanlike method of terminating battery wires.
12. Compact—inexpensive—easily installed.



Cat. No. BS-5

Cat. No.		List Price
BS-3	3-Wire.....	....
BS-5	5-Wire.....	....

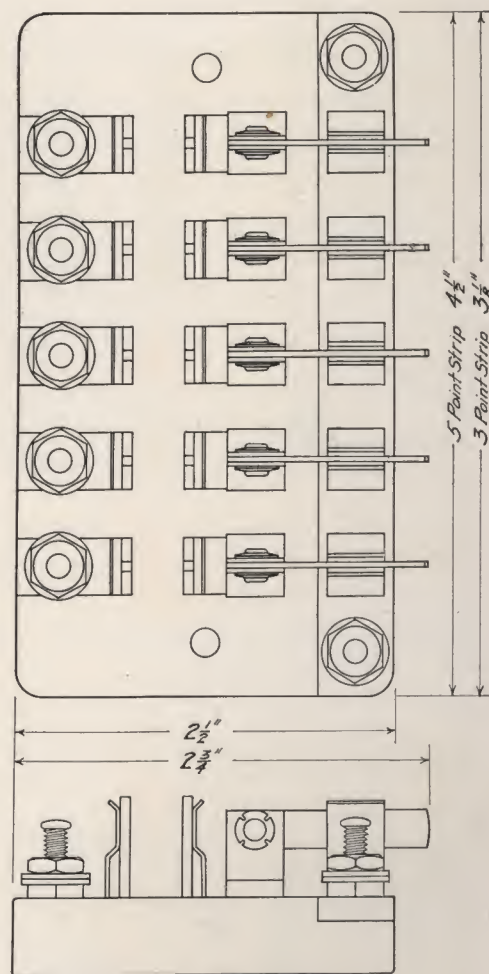
Auth Fused Battery Strips are installed in our Battery Cabinets and Interconnection Cabinets.

Cat. No. BS5 can be equipped with glass enclosed fuses

Dimensions of Connection Strips and Battery Strips

Fire Hazard

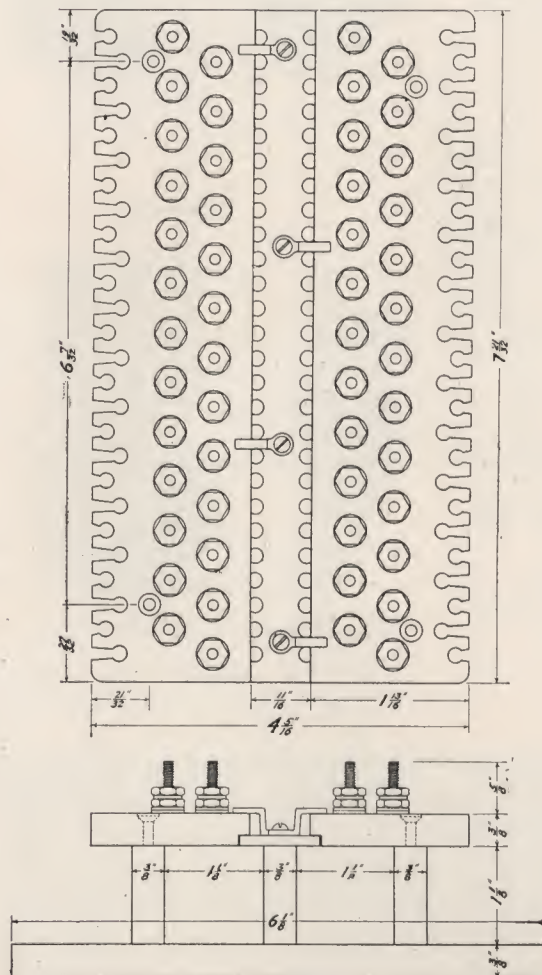
It is now common practice to operate low tension systems at from 15 to 30 volts, or even higher, and to supply energy from motor generators, or storage batteries, or from batteries of dry cells of large capacity. In such case the short circuiting or grounding of wires will cause a dangerous arc, and if the circuit is not opened, wires will often become red hot, making the fire hazard serious. This danger is avoided by fusing the circuits.



Dimensions of BS-5 Battery Strip

Protection to Batteries, Etc.

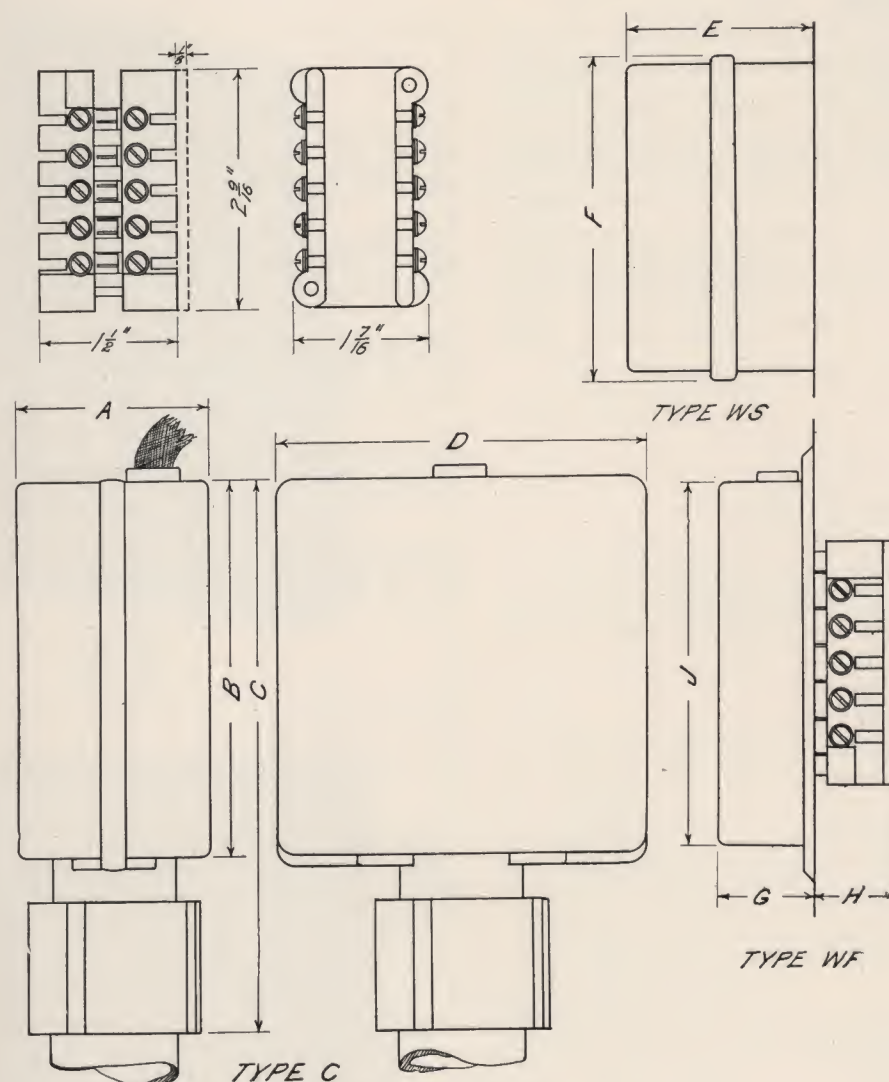
Motor generators and batteries are expensive apparatus. A continued overload due to a ground or short circuit will burn out a motor generator and will ruin a storage battery, or exhaust dry cells. No warning will be given until the damage has been done and then only by the shutting down of the entire system. If the system is properly fused, the fuse in the particular branch on which the trouble occurs will immediately open, thereby saving the generator or battery, and possibly the apparatus at which the trouble occurred.



Dimensions of Connection Strip Type TC-52



Separable Connectors



Dimensions

TYPE "C"					TYPE "WS"					TYPE "WF"						
Cat. No.	No. Wires	B	C	D	Cat. No.	No. Wires	F	E	Wide	Cat. No.	No. Wires	Height of Plate	Width of Plate	G	H	J
C 10	10	2 1/4	3 1/4	5 1/4	WS 10	10	3 5/8	2 3/8	2 1/8	WF 10	10	4 1/2	2 3/4	1	1	3 1/4
C 20	20	2 3/8	4	6 1/4	WS 20	20	4 1/8	2 3/8	4	WF 20	20	4 1/2	4 3/8	1	1	3 1/4
C 40	40	2 1/2	4	6 1/4						WF 30	30	4 1/2	7	1	1	3 1/4
C 60	60	3	6	8												
C 80	80	3 1/4	7	10												
C 120	120	3 1/4	11	13												

Larger sizes and special types on application

Residences

Separable connectors can also be applied in private residences. Before the house is occupied, it is hard to determine the location of different electrical appliances, particularly in bed rooms. If several Auth receptacles are installed at possible locations of apparatus, the furniture and apparatus can be rearranged at will.

Moving

The Auth Separable Connector is of advantage to the concern moving into new quarters. With the old method, wiring in the new quarters could not be completed until the furniture was in place. With the Auth way, all wires are connected to receptacles and tested. Desks are wired in the old quarters and flexible cable terminated in an Auth plug. When the furniture is moved, it is only necessary to insert the plugs. Once a desk is wired with an Auth plug, the wiring will never have to be changed for any future moving.



Code Calling System



No. 1700

The code calling system is designed to assist the telephone operator to locate individuals and call them to the telephone. The apparatus for the system consists of the sending station, the master relay and the signals.

The sending station is housed in a neat hardwood case which is located on or near the telephone switchboard. It has a name card and code number for each individual and may be furnished in 10, 20 or 30 call capacities.

The master relay is operated by the sending station and the signals are operated from the contacts of the master relay.

Various types of tone signals are used. The selection of these is dependent upon the noise conditions which prevail at the locations where the signals are to be operated.

To call an individual to the telephone, the operator moves the code indicator to the proper code number and pulls the handle down once. The call is automatically sounded three times on all signals.



No. 1702



No. 1703

Signals

No. 1700

Flush buzzer which will fit a deep single gang switch box. It can be used single stroke or vibrating. Recommended for offices and other quiet locations.

No. 1702

Surface type buzzer which can be used single stroke or vibrating. For offices and other quiet locations.

No. 1703

Special soft tone buzzer for alternating current systems. The tone is penetrating but not annoying. This buzzer can be furnished in the flush wall type.

No. 1704

Large bells for very noisy locations. May be used, either single stroke or vibrating.

No. 1707

A special toned horn designed for code calling systems. The sound is penetrating but not jarring, surface mounting.

No. 7052

Grille plate for flush boxes containing bells, buzzers, horns or other audible signal apparatus. Standard material: Brass, bronze or steel.

No. 1580

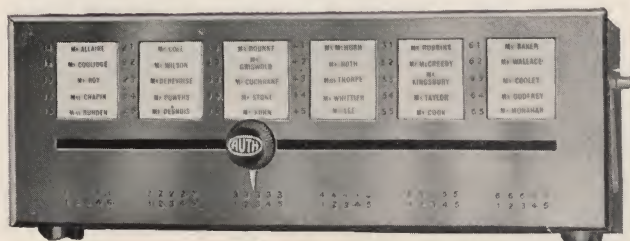
Central Station. Made in 10-20-30 call capacities.



No. 1704



No. 1707



No. 1580



Silent Paging System

This system has the following advantages over the ordinary silent paging which is accomplished by large lamp annunciators centrally located:

First: This system can be used on floors which are so subdivided into rooms and sections that there is no central location at which a visual signal can be placed which will be visible from all parts of the floor. Because:

1. Each signal station is very small and for 120 calls or less occupies a wall space equivalent to the size of a standard two-gang switch plate.

2. A 120-call system requires only 6 common wires from the sending station to all outlying stations.

3. The size and design of the outlying receiving stations are such that they will not detract from the appearance of finely furnished offices and rooms.

4. The cost of the outlying stations is low.

The above features make this system feasible and practical for use in large offices where the individual being called may be in one of the numerous private offices or in hospitals in which case a signal station can be placed in each private room and ward and in the corridors so that the doctor being called can receive his signal immediately no matter where he may be in the building.



No. 1708

Outlying Receiving Stations

No. 1708

The outlying receiving station consists of a solid brass plate the size of a two-gang switchplate on which is mounted an indicating dial and four colored lamp opals. The code signals are indicated on the receiving stations as a colored lamp signal and a number as, for instance, red light and number 5 or as a number alone without a lamp signal.

Sending Station

No. 1709

The sending station consists of a toggle switch panel mounted in a suitable hardwood cabinet.

To send out a call, it is only necessary for the operator to throw the switch opposite the name of the individual to be called. The signal will appear simultaneously on every receiving station.



No. 1709

Wiring

For a system with a capacity to call 120 individuals, only six common wires are required from the sending station to each outlying station and two battery wires to the sending station.

Operating Current

The operating current for the system is 24 V. D.C. This may be supplied by an Auth-O-Former, Authostat or motor generator.

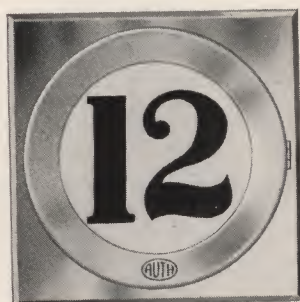
Simultaneous Calls

For systems on which more than one individual must be called at the same time, a flasher is used. This apparatus makes it possible to repeat three or four code signals in rapid succession until they are answered.



Paging Annunciators

Cat. 1519



Cat. No. 1519—Paging Annunciator



Cat. No. 1520—Paging Annunciator



Cat. No. 1521—110-Volt Lamp Type



Cat. No. 674—Paging Annunciator

A flush lamp annunciator made in separate units, one unit for each number. These annunciators are designed for flush mounting in a wall or on a stockbroker's quotation board. The units may be placed in a row or at various strategic points. Lamps may be removed through hinged doors. The round mounting ring and glass may be furnished without the face plate. The Cat. 1519 annunciator may be operated on low voltage or 110 V. Overall size with face plate $4\frac{1}{2}'' \times 4\frac{1}{2}''$ Wall cut with face plate $4'' \times 4''$. Overall size without face plate $4'' \frac{1}{16}'' \times 4\frac{1}{16}''$ Wall cut without face plate $3\frac{1}{4}'' \times 3\frac{1}{4}''$.

Cat. 1520. Wall Lamp Annunciator

The Cat. 1520 annunciator is especially designed for Broker's offices. It is made for surface or flush mounting, to be placed on top of the quotation board or in the board. Standard numbers are 2" high. Other sizes may be supplied. Cases and trims are of steel, finished as desired. The front is hinged to facilitate replacing of lamps. Low voltage or 110 V. may be used for operating.

Cat. 1521. Surface Wall Annunciator

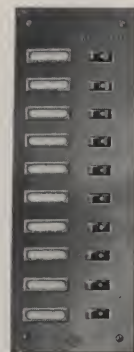
Cat. 1521 annunciators are surface wall annunciators, designed for locating executives or salesmen in a large building. These annunciators are located at convenient points on each floor. All annunciators are in multiple and are operated from a paging panel at the telephone switchboard. Each annunciator is provided with a single stroke bell. A number of calls may be made simultaneously. Cat. 1521 annunciators are made to operate on low voltage or 110 V. and have steel cases with hinged fronts.

Cat. 674

Cat. 674 is a double faced paging annunciator. The indication may be seen from either side. In use, general construction and operation it is similar to Cat. 1521

Cat. 574. Paging Panel

Cat. 574 is a toggle switch mat for operating paging annunciators. Each switch controls a lamp signal. A push button is usually provided for operating a buzzer or bell in the annunciator. The top plate is solid brass. Standard finish, natural brushed brass. The base for low tension systems is wood—for 110 V. operation, metal—and is finished as desired. See page 58 for paging panel with pilot lamps.



Cat. No. 574
Toggle Switch



Annunciator Systems

"IN" and "OUT" Annunciator System

"IN" and "OUT" systems are used principally in large offices and hospitals.

Their purpose is to indicate, at convenient locations, what persons are in the office or hospital building.

Each person using the system has a unit on the button plate, consisting of a card-holder bearing his name, a white "IN" button and a black "OUT" button. When entering the office or building he presses the "IN" button. This sets a drop bearing his name. This drop remains in the set position while he remains in the building. When leaving he presses the "OUT" button which resets his drop. Cat. 501 drops are used on "IN" and "OUT" annunciators. They have a disappearing indication which leaves the space entirely blank when the drop is not in the set position. Each drop has a removable name card.

Either AC or DC may be used for "IN" and "OUT" systems. When ordering specify which is wanted.

Cat. 1522, 8 unit.....List Price

Cat. 1523, 8 unit.....List Price

Cat. 1524, 8 unit.....List Price

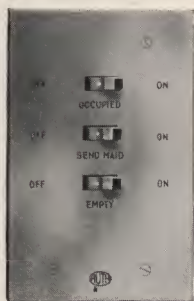
Each additional unit.....List Price



Cat. No. 1522



Cat. No. 1523



Cat. No. 1525
Booth Calling Station

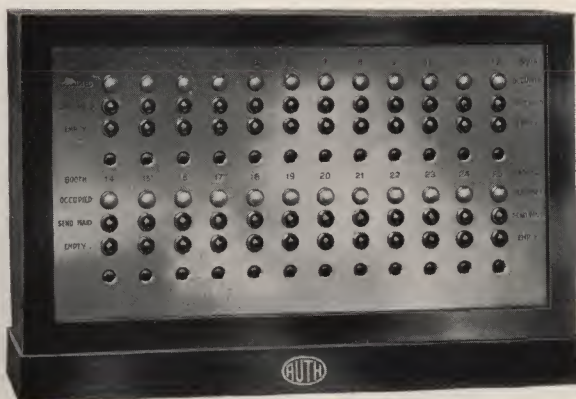
Beauty Parlor Annunciator Systems

Cat. 1525 has three switches and a concealed buzzer mounted on a solid brass plate. One of these is installed in each booth.

Cat. 1526 has 3 lamps and a button for each booth. Surface, flush or desk type. Finished to match desk. Voltage, 24 AC or DC.



Cat. No. 1524



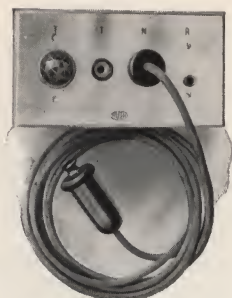
Cat. 1526—Beauty Parlor Annunciator for Main Desk

This system has been designed to best serve the numerous beauty parlors now in vogue. The girl at the main desk can keep tabs on every booth. She can tell if the booth is empty, occupied or will soon be ready or if she should send a maid to the booth. The attendant in the booth can be informed instantly that a customer is coming. The last word in "up to date" beauty parlor practice. Numerous Auth systems are installed in the better class of department stores having beauty parlors.



Hospital Signal Apparatus

Nurses Call



Cat. No. 201-D

The Auth mechanical locking button eliminates all relays on nurses call apparatus. This button is made of a substantial bakelite casting and is practically unbreakable. In the normal position of the button, no circuits are closed. Pressing the button in, lights the various pilot lamps and operates the buzzer. When the patient releases the button the buzzer stops operating, but the pilot lamps remain lit. The pilot lamps are put out only when the nurse restores the button to its normal position.

Cat. No. 201-D

Cat. No. 201-D is a ward calling station combination. Plate consists of a nurses call push button and plug, telephone jack and pilot lamp, and a radio outlet. The plate is made of solid brass. Standard finish, white ivory.

Cat. No. 200

Cat. No. 200 is a nurses call station, which is used principally in private rooms, although it is sometimes used in wards where there are few beds. The standard equipment consists of the Auth mechanical locking and resetting push button connected by 8' of Tirex washable rubber cord to the Auth four point separable plug which fits into the Jack plate. The plate fits a standard single gang box. Is solid brass and the standard finish is ivory white.



Cat. No. 200

Cat. No. 301

Cat. No. 301 is a nurses pilot lamp and buzzer station. This annunciator has one indication for each wing, floor, or section of the building. The signal directs the nurse to the proper section of the building where the corridor dome lamp over the door of the private room or ward indicates from which room the call originated. A toggle switch is furnished for cutting out the buzzer. Plate is solid brass. Standard finish, ivory white.

Cat. No. 300

Cat. No. 300 is a corridor dome lamp. It is placed over the door of each private room and ward. Its signal indicates from which room a call has been sent. In order that it may be seen from any part of a corridor the glass dome projects 2 1/2" out from the surface of the wall. The hinged door on the front of the plate makes relamping easy. The plate is solid brass, standard finish is ivory white.

See our hospital catalog for complete information on hospital signal apparatus.



Cat. No. 301



Cat. No. 300



Hotel Signal Systems

Keller Fredericks System



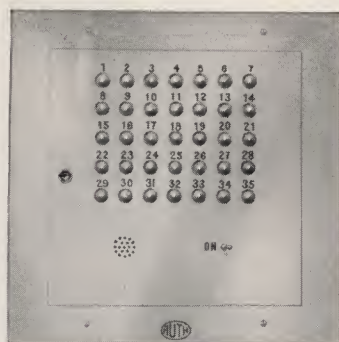
No. H 1527

This system was designed to give the best possible service to the guest. A three button push button pad is mounted on a table in each guest room. Over each guest door is a pilot dome signal with 3 colored lamps under one dome. One for maid and the others for valet and waiter. Annunciators are furnished for maid and waiter stations. Pressing a button in the guest room will indicate on pilot dome lamp over door and at annunciator. This call cannot be reset until a key carried by maid or waiter is inserted in key switch at the door of calling guest room.

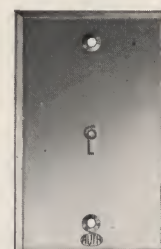
The maid and waiter annunciators are provided with pilot indications and switches for the floor above and below for night operation. A pilot annunciator for the office will show if any of the guest calls are unanswered.

Maid Location System

A hotel guest in need of maid service will telephone to the office. A lamp annunciator located in the office will show the location of the maid on that floor. The maid has a plug with a lamp for insertion in receptacle at the entrance to each guest room. It is possible to locate maid by the lamp indication at the entrance to the room in which she is at work.



No. H 1529



No. H 1532

Electric Reset Annunciator

Cat. H-1527. Surface Type—Cat. H-1528. Flush Type

Designed for waiter and maid service. The indication will remain set and a soft tone buzzer will continue to ring until released by key contact at the entrance to calling guest room. Buzzer will continue to ring until all calls are answered.

Cat. H-1529. Lamp Annunciator

This annunciator operates the same as Catalog H 1527. It is mounted flush in wall. It has a metal case and hinged door with a cut off switch for buzzer.

Cat. H-1530. Lamp Annunciator

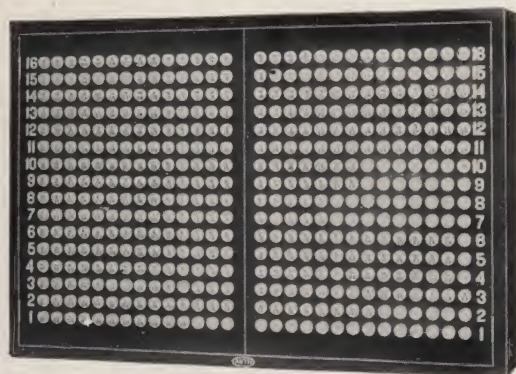
Designed to indicate the location of maids. The lamp remains lit as long as the maid is working in guest room.

Cat. H-1531. Desk Lamp Annunciator

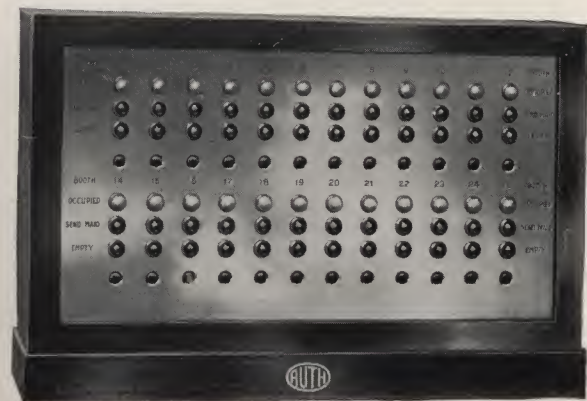
Designed for the office to indicate the calls made for maid and waiter. Complaint on service can be checked, and at night one waiter can take all calls.

Cat. H-1532. Key Switch

This switch is installed at the entrance of each guest room. Operation of switch will reset all signals originating in the room.



No. H 1530—Wall Lamp Type



No. H 1531



Return Call Systems for Hotels, Clubs, Dormitories, Theatre Dressing Rooms, Y. W. C. A. and Y. M. C. A. Buildings, Etc.

Cat. 1547. Return Call Annunciator

Wood case, surface type electric reset. Standard finishes oak and mahogany. Can be wired for any return call system.



Cat. No. 1547.
Return Call Annunciator

Cat. 1548-10. Return Call Annunciator

Metal case, surface type, electric reset. Standard finishes, oak and mahogany.

Can be wired for any return call system.

Cat. 1549. Flush Return Call Station

A return call push and an Auth Cat. 1702 adjustable buzzer completely wired and mounted on a solid brass or bakelite plate. Standard finishes brushed brass or brown bakelite. This unit will fit a deep single gang switch box.

Cat. 1550. Flush Return Call Station

A return call push and an Auth small type adjustable buzzer completely wired and mounted on bakelite or solid brass plate. Standard finishes brown bakelite or brushed brass. Will fit a shallow single gang switch box.

Return Call Systems

These systems are arranged so that the office can call and acknowledge calls from the rooms and the rooms can call and acknowledge calls from the office.

There are two methods of wiring for return call systems. One requires two direct and one common wire from the annunciator to each room station. Only one set of batteries or transformers is needed with this system. The other requires one direct and two common wires from the annunciator to each room station and two separate sets of batteries or transformers are needed. The system desired must be specified when return call material is ordered.

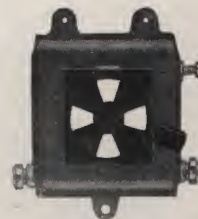
Our Standard system is 2 direct and 1 common.

Cat. 1551. Indicating Buzzer

This indicating buzzer can be mounted on the inside of a 2 gang switchplate, having the indication show only. At the side of the target drop is a small lever for hand resetting. It eliminates unnecessary wiring and is excellent for use in places where it is desirable to leave an indication that a call has been made. A return call button is furnished.



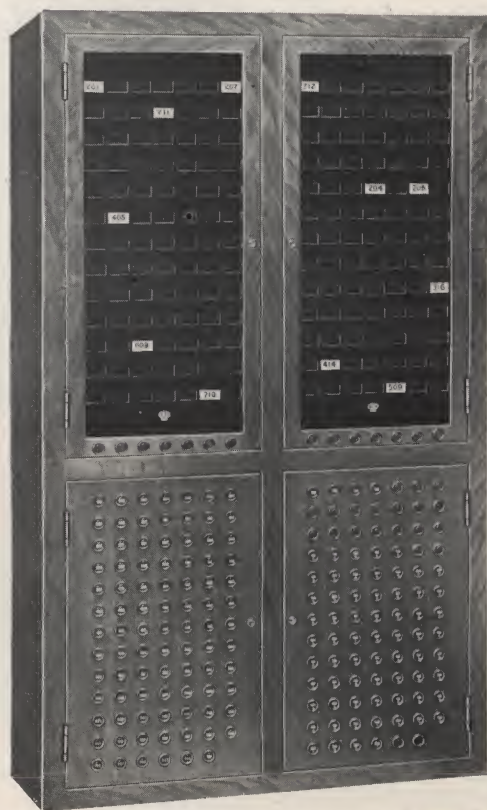
Flush Wall Type
Buzzer
Cat. No. 1549
(Button not shown)



Cat. No. 1551



Flush Wall Buzzer
Cat. No. 1550



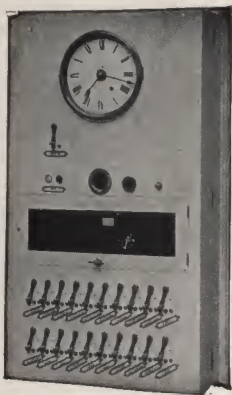
Cat. No. 1548-10. Return Call Annunciator Metal Case



Burglar Alarm System

Annunciator gives the alarm and indicates location of any open door or window. Can be arranged with or without clock, main switch, silent test, battery test, continuous switch, sectional cutouts, clock switch, and servants' bell.

Burglar Alarm Springs, used for doors or windows, are mounted on heavy brass plates, machine screw terminals, perfect insulation, no ground connection. Made for open or closed circuit.



Cat. No. 1565
Burglar Alarm
Annunciator



Cat. No. 1567
Burglar
Alarm Spring



Cat. No. 1566
Burglar Alarm
Spring

Fire Alarm System

The breaking of the glass on the Fire Alarm Station causes its respective drop to indicate—at the same time ringing continuously the bell on the Annunciator. A single point switch corresponding to the number on the drop is thrown, which rings the fire alarm gong located near the station from which the alarm was signalled. If the fire is of a serious nature an all switch on the Annunciator can be thrown, which will cause all the bells on the system to ring simultaneously.



Cat. No. 1569
Flush
Break Glass
Fire Alarm
Station



Cat. No. 1568
Fire Alarm Annunciator

Cat. No. 1569. Break Glass Station.....List Price

Cat. No. 1568. Fire Alarm Annunciator:
Prices on Application.
Wiring

Wiring: Separate section wires from each drop to each station and from each switch to each bell—common battery wire to all bells and stations.

High Water—Low Water Alarm Annunciators

This system shows to the Engineer the water level in the gravity tanks, sump or open-suction pumps. Has an indication for the alarm valve, which also sounds the large 8" gong. The other indications sound the 4" gong. Has section cut-off switches. A battery shelf is also provided inside of the case. Furnished complete with heavy steel surface box, black enameled. Has lock and key.

Cat. 1570.—Prices on application.



Cat. No. 1570. Alarm Annunciator



School Systems

School Systems

The wiring for school systems, such as the electric clocks, telephones, program bells and fire alarm, can be combined to save time and material. All systems may be operated from an Authostat of the proper capacity with separate fused output circuits for each system.

No. 755

Master station telephone desk type. The master station can ring and talk with every outlying station. Every outlying station can ring and talk with the master station.



No. 755—Master Station



Wall Telephone
No. 7051—Outlying Station

No. 7051

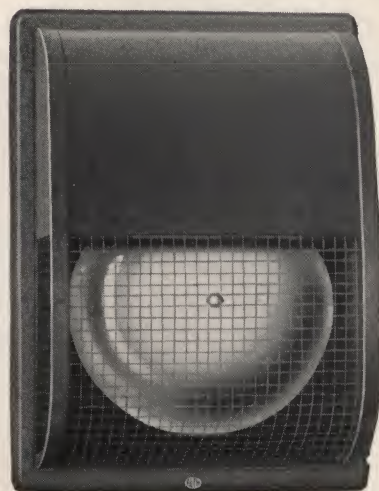
Outlying station wall telephone, surface type.

No. 7002-710

Loudspeaking classroom telephone, flush type, all metal, foolproof and dust-proof.

No. 1706

Schoolyard gong entirely protected.



No. 1706

Authostat

The Authostat consists of a fully automatic battery charging panel, complete with Exide Chloride Accumulator storage batteries, battery box and sand tray.

No. 1569

Break Glass Fire Alarm Station, flush type. Can be made for closed or open circuit systems and may be used with or without a central fire alarm annunciator.

No. 1704

Classroom bell, enclosed type, can be obtained in all sizes from 3 to 12 inches.

No. 1564

Flush type call button mat. Each button controls a bell. All bells may be rung simultaneously by pressing the master button.



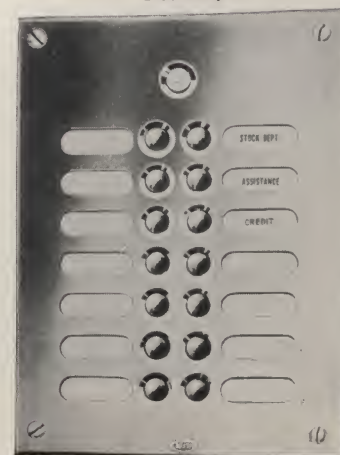
No. 1569



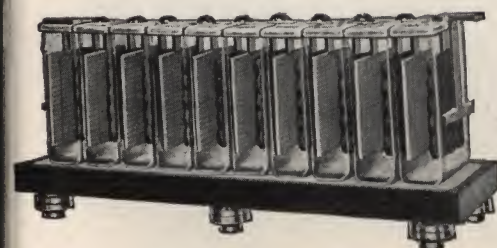
No. 7002-710



No. 1704



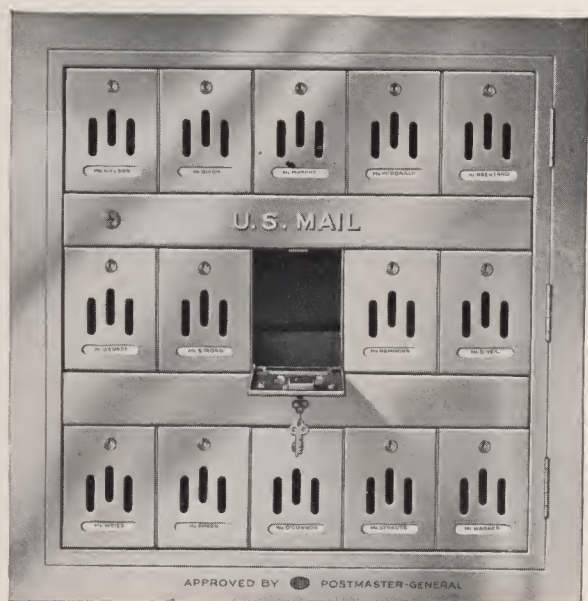
No. 1564



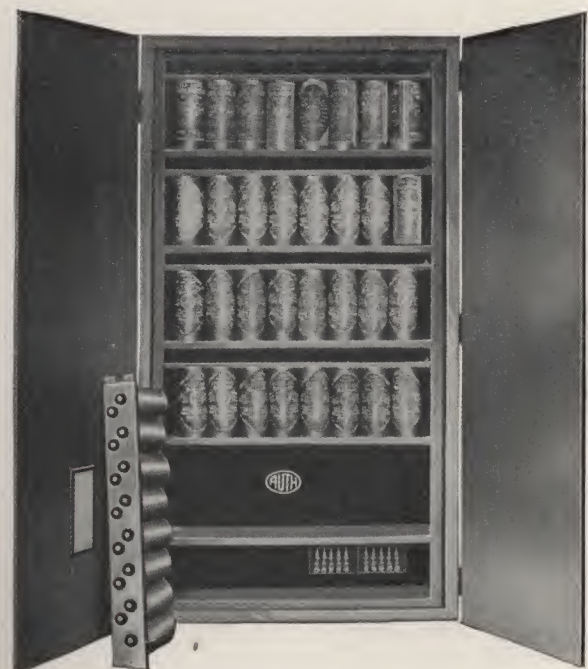
10 "CT" Cells on Sand Tray
Storage Batteries



School Mail Box and Battery Cabinets



Cat. No. 1571. Auth Mail Boxes Are Made in Groups of 10, 12, 15, 16, 20 Boxes



Cat. No. B5-40

Mail Boxes For Schools

The mail may be placed in open pigeon holes from the rear of the box, or a master door can be furnished opening from the front. The individual doors are equipped with a lock and two keys. The face of this box is made of heavy brass. The receptacle is made of heavy lead coated steel. Any number of groups can be furnished. Standard size groups are 10, 12, 15, 16 and 20 boxes.

Auth Battery Cabinets

The Auth Battery Cabinet was designed to take Standard Dry Cells such as can be bought anywhere. The cells are bolted to the insulated strip by means of regular Battery Terminals which are secured in the strip so that they cannot be lost. From cell to cell is a copper bus bar, arranged in such a manner that it is impossible to connect a cell incorrectly.

Each strip or row of batteries can be lifted out for renewal without disturbing or disconnecting any wires in the rows above or below. Each strip has a pair of 60-ampere capacity Knife Blades at one end, so arranged that when a unit is placed in the Cabinet it is guided by a V shaped groove into the copper jaws, making a perfect and at the same time separable connection.

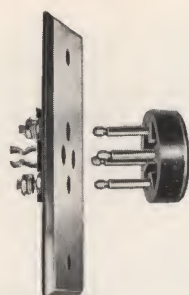
Each Battery Wire from house service is connected through a switch and a fuse, to protect the battery in the event of ground or short-circuit.

Cat. No.	No. Rows	No. Cells Ea. Row	Total Volts	Steel Cabinet	Wood Cabinet
B2- 8	2	4	8		
B2-10	2	5	10		
B2-12	2	6	12		
B2-14	2	7	14		
B2-16	2	8	16		
B2-18	2	9	18		
B2-20	2	10	20		



Auth Battery Holder—Side View

Separable Plugs and Push Buttons



No. 1559
Separable Plug



No. 1560. Floor Push
and Separable Plug



No. 1563. Floor Push



No. 1564. Flush Wall Push
with Three Contact Strap
Key Buttons

Cat. 1559. Wall Plugs

A special form of multiple connector, two to four circuits can be instantaneously disconnected from extension circuits. The plug and jack are the same as used on our Hospital System. The flexible cable is fastened to the plug without having a strain on the connections. The jack has long heavy springs, with lock nut terminals, bakelite insulation.

The receptacle is mounted on a standard switch plate, the plug has a wire compartment for terminals. One of the contacts of the plugs is larger in diameter for poling.

Separable Plug

	List Price
Cat. No. 1557. 2 Contacts.....	
Cat. No. 1558. 3 Contacts.....	
Cat. No. 1559. 4 Contacts.....	

See page 42, Cat. No. D.C.-4 floor type multiple connectors for 4 connections.

Cat. 1560. Combination Floor Push with Plate for Floor Box

Cat. 1561. Without Plate for Floor Box

Designed to fit a standard floor box. Can be operated as a floor push, or as a receptacle for a plug for an extension push button. Use Cat. 114 or Cat. 106 see page 31 and 36, for extension push buttons. List Price.

Cat. 1563. Floor Push

Floor portable button designed to operate under a rug or carpet. A high grade floor push, having two heavy brass plates separated from each other with insulated springs.

Cat. 1563. Floor Push..... List Price

Cat. 1564. General Call Button Plates

For Ringing One or All Bells

When it is desired to ring one, or a group of bells, three contact strap key buttons are furnished for ringing the individual bells. A general call button is furnished with extra heavy contacts for ringing the group of bells.

Face plate is $\frac{1}{8}$ " brass.

This plate can be mounted on a wood mat with felt bottom for a desk. All push button springs have heavy silver scraping contacts.

List Price.....



110 Volt Push Buttons

Cat. 260. 110 Volt Push Button

A momentary contact push button for 110 volt circuit, mounted on a standard switch plate. Will fit a one gang box. Contacts are of heavy silver.

Cat. No. 260
Cat. No. 261

Cat. 261. Multiple Circuit Locking Push Buttons

Same design as Cat. 260.

A special button for closing two or three circuits when the plunger is depressed. The contacts remain closed until deliberately reset. Resetting is accomplished by pulling out the plunger.

Cat. 262. 110 Volt Momentary Contact Push Button

An extension push button designed for momentary contact mounted in a bakelite housing connected with a rubber covered cord to a separable plug and receptacle. Will fit a standard switch box.

Cat. No. 262
Cat. No. 263

Cat. 263. Multiple Circuit Locking Push Button

Operated same as Cat. 261 locking push button made for 4 contacts. Contacts remain closed until reset.

Cat. 795 Push Button Plate

A heavy brass plate with Cat. 115 Midget push buttons under a card holder. Can be used in vestibule of apartment houses or in schools. This plate can be furnished with strap key buttons and a general call button.

Cat. 795, with midget buttons

List
Price

6 Buttons.....	.....
Add for each additional button.....	.....

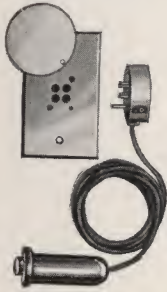
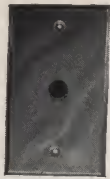
Cat. No. SC. Flexible Silk Push Button Cord

Best quality, consisting of specially braided copper strands two wrappings of cotton. A cotton sleeve and pure silk covering over all. Brown Silk—Standard.

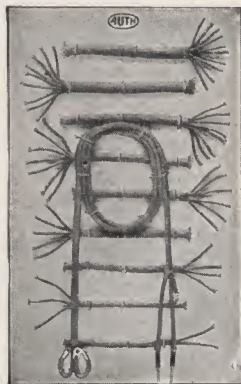
Per Foot, per Conductor.....	List
100 Feet or more per, Conductor.....	List

Cat. 500-L. Paging Panel With Pilot Indication

Designed to operate with a number of lamp annunciators located about the building for calling individuals to the telephone. Each switch controls a lamp signal. The pilot indication shows the unanswered calls. See Page 37.



Cat. No. 795



Cat. No. SC. Silk Cord



Cat. No. 500-L



Relays

Cat. RD. Momentary Contact Relay

A small momentary contact relay for low voltage open circuit work, may be furnished with 1, 2 or 3 contacts. A.C. or D.C. operation.

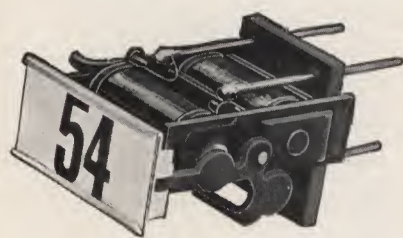


Cat. No. RD
Relays

Cat. No. R-44

Cat. R-44. Electric Reset Locking Relay

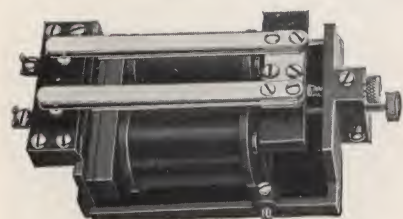
Small size enclosed locking relay operating on the same principle as R-43. Operated from remote set and reset push buttons. Designed for lamp annunciators. Low voltages either A.C. or D.C. on the relay. Contact may be made for small current 110 V. feed.



Cat. No. R-45

Cat. R-45. Indicating Locking Relay. Electric Reset

Operates from set and reset push buttons on low voltage A.C. or D.C. current. Locked in both the set and reset positions. Capacity of contacts 5 amperes at 24 V. Without the indicating feature, it is used as the standard relay for lamp annunciators.



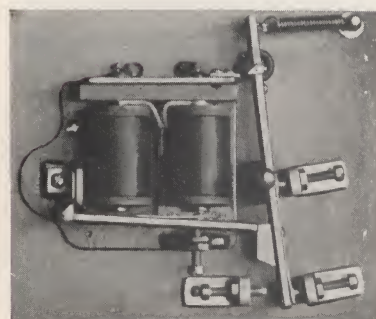
Cat. No. R-46

Cat. R-46

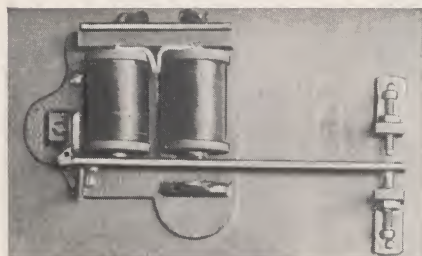
This relay is designed for momentarily closing from one to seven circuits. Contacts may be arranged so that when the relay operates 7 circuits will be opened and 7 will be closed. Operating voltages 6 to 110-V. A.C. or D.C. 5 amperes at 110 V on contacts.

Cat. R-41. Circuit Breaker Relay

Circuit is broken and locked in the open position when the relay is energized. Reset is manual. Operating Voltages 6 V. to 110 V. D.C. 10 amperes at 110 Volt on contact.



Cat. No. R-41



Cat. No. R-42

Cat. R-42. Emergency Relay

Emergency relay with make and break contacts for 110 V. 10 amperes.

Cat. R-43.

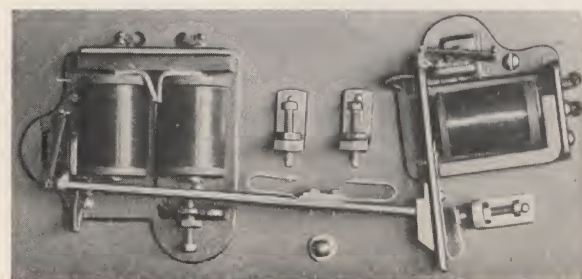
Electric Reset Locking Relay

Locking relay for operation from remote set and reset push buttons. Contacts 110 V. 10 amperes operating voltages 6V. to 110 V. D.C.

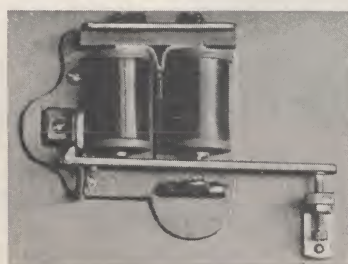
Cat. R-40

Emergency Relay

For continuous closed circuit operation on from 6 V. to 110 V. D.C. Contact is for 10 amperes at 110 Volts and is made when the relay circuit fails.



Cat. No. R-43



Cat. No. R-40



The Auth-O-Former

Batteries No Longer Necessary

Supplies Direct Current at Low Voltage
Operates Direct from Lighting Circuit Without Storage Batteries
To operate Annunciators — Bells — Telephones — and other Signal Systems.

Description

The Auth-o-former is designed for direct-current. Its application with direct current is exactly analogous to that of the the familiar A. C. transformer with alternating current.

The primary voltage of the Auth-o-former is supplied by the 110 V. D. C. lighting system. The secondary voltage may be any predetermined value, between 6V. and 32V. The secondary voltage of any Auth-o-former may be easily changed by substituting a different screw base resistance tube for the one which is in the instrument. Voltage reduction is obtained through a potentiometer circuit employing resistances and relays.

The standard Auth-o-former can only be used on open circuit systems. Information concerning Auth-o-formers for closed circuit systems will be given on request.

The Auth-o-former has a negligible supervisory current of approximately 60 milliamperes which is similar to the continuous primary current of an A. C. transformer. The load voltage and current are obtained only when a load is connected to the secondary output and are automatically cut out by the removal of the load.

Dimensions are 20" H—12" W—8" D.

As reliable as the City Lighting Supply

No Batteries Required



Cat. No. 1



Authostat A.-C. Type Low-Tension Current Supply



Patent applied for

AUTHOSTAT CATALOG 110-AC-24
DIMENSIONS

Height 25½" Width 12" Depth 8"

Specifications AC and DC Type Panels

Panel—Black marine slate.

Case—Steel box with ventilation holes and knockouts.

Fuses—All circuits fused.

Pilot Lamp—Shows condition of charging source at all times.

Wire Box—Provided with accessible terminals for all wires, well protected.

Circuit - Breaker —Furnished on all panels to avoid excess voltage surges in the service to the low-tension supply.

Operates from A. C. city lighting supply mains. Produces steady even direct-current supply.

Storage Battery

Only the Exide Chloride Accumulator type of storage battery specially designed for this class of service is furnished. The PT type is recommended for this service in general. The CT type is only recommended for small installations, for open circuit work, where the loads are 1 ampere or less.

Automatic Charger

Consists of a vacuum tube type of rectifier to change the alternating current to direct current so as to be suitable for charging storage batteries. Has the same feature as the DC type board of always keeping the battery charged and ready for use, without attention.

Counter Cells

Enables a battery of fixed voltage to deliver varying voltages without the unequal conditions of capacity and voltage which result from other methods of securing different voltages from one battery.

Battery Box

Wood box painted with two coats of black asphaltum, acid-resisting paint.

Catalog No.	Volts	PT Type List	CT Type List	Note
110-AC-10	10	\$425.00	\$405.00	Price includes Automatic Battery Charger with battery of type chosen and battery box.
110-AC-12	12	437.00	412.00	
110-AC-14	14	449.00	419.00	
110-AC-16	16	461.00	426.00	
110-AC-18	18	473.00	433.00	
110-AC-20	20	485.00	440.00	
110-AC-22	22	497.00	447.00	
110-AC-24	24	509.00	454.00	

Obtaining Different Voltages by Using Counter EMF Cells

Catalog No.	Volts	PT Type List	CT Type List	Note
110-AC-10-20	10 & 20	\$540.00	\$495.00	These prices include the counter cells needed to give the voltages indicated in addition to the apparatus listed above.
110-AC-12-24	12 & 24	570.00	515.00	
110-AC-8-16-24	8, 16 & 24	582.00	527.00	

Counter cells are placed in battery box with battery.

To Obtain Intermediate Voltages

For reducing battery voltage 4 volts.....list \$37.00
For reducing battery voltage for each succeeding 2 volts..... " 6.00



Emergency Lighting System

A device to furnish emergency lighting when city supply fails through fire, short circuits or other causes. Used in theatres, banks, or any other place where such happening would endanger or bring about loss of life and property.

The Auth Emergency Lighting System is designed to give light at the most important locations in case the lighting circuit fails. Our Automatic Charger is equipped with the necessary automatic switches to control the charging of a set of storage batteries and our emergency relay will automatically connect this battery to the emergency lights, and will automatically return the emergency lights to the lighting circuit when the emergency is over.

This system is made for A. C. and D. C. This system is furnished complete with automatic switches, fuses, storage battery and battery box. We do not furnish lamps and receptacles for emergency lights.

Price Schedule

Complete with Auth Automatic Battery Charger, Storage Batteries and Battery Box

Catalog Number	Battery Volts	Maximum Lamp Load for One Half Hour	Battery Type	LIST PRICE	
				D. C. Source	A. C. Source
EI-110-32- 500	32	10 to 50 - 10 Watt Lamps	KXH- 5	\$ 523.00	\$ 638.00
EI-110-32-1000	32	50 to 100 - 10 Watt Lamps	KXH- 7	680.00	805.00
EI-110-32-1500	32	150 - 10 Watt Lamps	KXH- 9	815.00	940.00
EI-110-32-2000	32	200 - 10 Watt Lamps	KXH-13	1,024.00	1,149.00
EI-110-32-2500	32	250 - 10 Watt Lamps	KXH-15	1,188.00	1,313.00



Type M—200-2

Auth Automatic Storage Battery Charging Panel

The Auth Automatic Storage Battery Charging Panels are designed to furnish energy for annunciators, telephones, bells and various signaling systems. The Auth Automatic Charging Panel will give the batteries the attention they require, charging only when the current strength of the battery is below normal.

Storage batteries are capable of supplying large currents for long periods without any effective drop of voltage. Primary batteries become polarized when large currents are drawn from them and deteriorate rapidly. While the initial cost of a storage battery system may exceed that of a dry battery system, the constant renewal of the latter makes them far more expensive finally.



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